# **Exhibit A-Courses approved for ISA offerings**

Exhibit	Course Number	Course Name	Units	Contact Hours
В	FIRE-58	Firefighter Basic Skills	9	216
С	FIRE-63A	Basic Firefighter I, Academy A	8	180
D	FIRE-63B	Basic Firefighter I, Academy B	8	180
E	FIRE-65C	Wildland Firefighting Strategy and Tactics	1	18
F	FIRE-65E	Introduction to Hazardous Materials Awareness	0.5	9
G	FIRE-65F	Hazardous Materials-First Responder Operations (HM F.R.O)	1	20
Н	FIRE-65G	First Responder Operations-Decontamination (DECON FRO)	0.5	9
I	FIRE-66D	Equipment Operator for Volunteer Firefighters	2	36
J	FIRE-67A	Low-Angle Rope Rescue, Operational	1	18
K	FIRE-67B	Auto Extraction	0.5	9
L	FIRE-68B	Basic Incident Command System (I-200)	1	18
M	FIRE-68C	Incident Command System-Intermediate (I-300)	1.5	27
N	FIRE-68D	Advanced Incident Command System (I-400)	2	36
0	FIRE-69A	First Responder Medical	2.5	45
Р	FIRE-69B	First Responder Re-Certification	1.5	27
Q	FIRE-71A	Fire Instructor I	2.25	40.5
R	FIRE-71B	Fire Instructor II	2	36
S	FIRE-72A	Fire Command- Module A	2	40
T	FIRE-72B	Fire Command- Module B	2	40
U	FIRE-73A	Fire Inspector 1A	2	40
V	FIRE-73B	Fire Inspector 1B	2	40
W	FIRE-75	Fire Management I-Management for Company Officers	2	40
X	FIRE-76A	Fire Apparatus Driver/Operator 1A (Emergency Vehicle Op)	2	40
Υ	FIRE-76B	Fire Apparatus Driver/Operator 1B (Pump Op)	2	40
Z	EMER-52	Emergency Medical Technician 1 Refresher	1.5	27

## Exhibit B



## Merced College Course Outline of Record Report 06/29/2022

## FIRE-58: Firefighter Basic Skills

#### **General Information**

Author

- Bryan Donnelly

Course Code (CB01):

FIRE-58

Course Title (CB02):

Firefighter Basic Skills

Cohort:

Fire Technology

**Proposal Start:** 

2022U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000630831

**Curriculum Committee Approval** 

Date:02/17/2022Board of Trustees Approval

Date:03/08/2022 External Review Approval

Date:02/17/2022 Course Description:

Provides the firefighter with basic knowledge of fire behavior and control and basic skills to safely

perform essential fire ground tasks with minimal supervision. Student must supply instructor-

approved personal protective equipment (required instructional supply).

Submission

Improvement to Program of Study

Changes in hours and state required curriculum for firefighter state certifications. Formerly

FIRE-66A

Authora

- Bryan Donnelly

### **Faculty Requirements**

**Master Discipline** 

- Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred: No value

Additional Bachelors or Associates Discipline

No value

Preferred:

**Course Development Options** 

Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options
Course is not a basic skills course.	Course is not a special class.	<ul><li>Pass/No Pass</li><li>Letter Grade Methods</li></ul>
Allow students to gain Credit for Prior Learning (CPL)	Allowed Number of Retakes	Course Prior To College Level (CB21)  Not applicable.
Credit for Prior Learning assessmentmethods accepted	Retake Policy Description	
No value	No value	Allow Students To Audit Course
Course Support Course Status (CB26)  Course is not a support course		
Associated Programs		
Course is part of a program (CB24)	,	
Associated Program No value	Award Type	Activ
Transferability & Gen. Ed. Option	ns	
Course General Education Status (CB25)  Not Applicable		
Transferability (CB05)	Transferability	y Status
Not transferable	Not transferab	ole

## **Units and Hours**

## Summary

Hours

Minimum Credit Units (CB07)9

Maximum Credit Units (CB06)9

Total Course in-Class (Contact)

216

**Total Course Out-of-Class** 

270

Hours

**Total Student Learning Hours**486

**Faculty Load** 

Credit / Non-Cre	east Options				
Course Credit Status (	(CB04)	Course Non Credit	Category (CB22)	Non-Credit Characteristic	
Credit - Degree Applica	able	Credit Course.		No Value	
Course Classification	Code (CB11)	Funding Agency C	etegory (CB23)	Cooperative Work Experience Edu	cation
Gredit Course.		Not Applicable.		Status (CB10)	
Variable Credit Cou	urse				
Weekly Student	Hours		Course Stude	ent Hours	
	In Class	Out of Class	Course Duratio	n (Weeks) 18	
Lecture Hours	7.5	15	Hours per unit	divisor54	
Laboratory Hours	4.5	0	Course In-Class	(Contact) Hours	
Activity Hours	0	0	Lecture	135	
			Laboratory	81	
			Activity	0	
			Total	216	
			Course Out-of-	Class Hours	
			Lecture		
			Laboratory	270	
			Activity	0	
			Total	270	
				2.0	
Time Commitme	nt Notes for S	Students			
Evenings and weekends	. Weekends are 8 hr	. days			
Faculty Load			y Mark		-
Extra Duties: 0			Faculty Load: 0		
Units and Hours	- Weekly Spe	cialty Hours			·
				002.1.6	
Activity		Туре	In Class	Out of	
No Value		No Value	· No Value	No Value	

Pre-requisites, Co-requisites, Anti-requisites and Advisories

## Advisory

## ENGL85AC - Accelerated Foundations in Academic Literacy

#### Outcomes

- Use preview and reading techniques to facilitate understanding of a variety of texts.
- Apply critical thinking strategies to make connections between ideas in texts, demonstrating understanding through textual annotation.
- Analyze texts to unlock meaning and deepen understanding.
- Evaluate texts.
- · Synthesize ideas and information to develop one?s own viewpoint on a topic.
- Compose a range of thesis-driven, academic writing assignments using the writing process.

Entrance Skills	
Entrance	Descriptio
No value	No value
Limitations on Enrollment	
S. C. Santa Street, S. C.	
Limitations on	Descriptio
Must pass requirements for the	No Value
volunteeragency representing.	
Specifications	
Methods of	
Instruction	Lecture
Rational	No value
Rational	
Methods of	Other
Rational	Other - Problem Solving
Methods of	Other
Rational	Other - In class individual, small and large group activities

Methods of Instruction

Other

Rationale

Other - Demonstration of containment and extinguishment techniques

Methods of Instruction

Other

Rationale

Other - Demonstration of rescue techniques

Methods of Instruction

Other

Rationale

Other - Video

### **Assignments**

### READING

1. Handouts

### WRITING

1. Departmental forms

## OUTSIDE

- 1. Skill practice
- 2. Studying notes and handouts

## CRITICAL THINKING

1. In given scenarios, demonstrate the ability to appropriately apply knowledge and skills to simulated situations.

Methods of Evaluation	Rationale
Class Participation	No value
Other	Other - Student demonstration of Manipulative skills (testing)
Written examinations	No value
Other	Other - Written assignments

## Equipment

Students must supply instructor approved personal protective equipment (required instructional material).

## **Textbooks**

Author	Title	Publisher	Date	ISBN
NFPA/International Association of Fire Chiefs	Fundamentals of Firefighter Skills	Jones and Bartlett	2017	978-1-284-09821-1

## Other Instructional Materials

No Value				
			4	
Materials				
Fee				
- 4 4-4-			8 8-10 KB18 80 MW	
			- 100 1 0 -	The second secon
Learning C	Outcomes and Objectives			
	and the second of the second o	2 A - 1 A - 2 A -	* ** * * * *****	
Course				
To attain the kn	owledge and skills base to meet certification star	ndards for Paid Call Firef	ighter	
	•			
<b>CSLOs</b>				
				Expected SLO Performance: 70.0
Evaluate variou	is fire and rescue situations and apply the app	propriate tactics and		Expected SLO Performance: 70.0
ISLOs	Cognition - Use critical thinking skills to analyze	synthesize and evaluate ic	leas and information	
Core ISLOs		, ,,		
Demonstrate ti	ne appropriate inspection, donning, and use o	of protective		Expected SLO Performance: 70.0
		×	,	
ISLOs	Cognition - Use critical thinking skills to analyze	, synthesize and evaluate ic	leas and information	
Core ISLOs				
Made Annual Made to the court of the party				
Compare the li	mitations and benefits of different water			Expected SLO Performance: 70.0
				. 111
Core ISLOs	Cognition - Use critical thinking skills to analyze	, synthesize and evaluate id	leas and information	
	- · · · · · · · · · · ·			
				Expected SLO Redermage: 70.0
Recognize basis	c fire related building construction structural			Expected SLO Performance: 70.0
ISLOs	Cognition - Use critical thinking skills to analyze,	synthesize and evaluate id	leas and information	
Core ISLOs				
-	•		1	An 45, or
				:
		-		
Outline	No. 20 100 100 100 100 100 100 100 100 100	the second of th		
Outline				
Course Outline	e ·			
I Eine Comeica O	rganization and Responsibility			1
	al aid agreements			
	epts of Incident Command System Organization			
II. Fire Protection				
	ratory hazards: 1. Physical effects			
	2. Mental effects			
B. LDLH				1
	nal Protective Equipment  1. Structure protective clothing			
	an actore brotestive clouding			

### 2. Wildland safety uniform

#### III. Vehicle Fires

- A. Heating and expanding hydraulic systems
- B. Flammable liquids within systems
  - 1. Vapor density
- C. Battery as a container of hazardous materials
  - 1. Sulfuric acid
  - 2. Creation of hydrogen flammable gas
- D. Hybrid and electric vehicles
- E. Polyvinyl chloride
- F. Air bags
- G. Trunks unknown dangerous cargo
- H. Underside fuel storage area
  - 1. Gasoline
  - 2. Diesel
  - 3. Propane
  - 4. Methanol
  - 5. Electricity
  - 6. Steam
- 1. Trailers
- J. Extinguishment

### IV. Fire Behavior and Control

- A. Basic Fire Chemistry
- **B. Products of Combustion**
- C. Phases of a fire
- D. Fundamentals of Heat Transfer
- E. Pyrolysis, Flashover and Backdraft
- F. BLEVE
- G. Classification of Fire and Common Extinguishing Agents
- H. Physics of Fire

## V. Extinguishing Agents

### VI. Fire Hose Appliances

- A. Fire Hose Construction and Care
- B. Care of Hose Couplings
- C. Operating a 2 '12 inch hose clamp
- D. HoseLoads
  - 1. Flat
  - 2. Merced County
  - 3. Horseshoe
  - 4. LDH
- E. Hose Clamps and Various Hose loads

## VII. Self Contained Breathing Apparatus

- A. SCBA types and Components
- B. Sigma SCBA
  - 1. Donning
  - 2. Cleaning
  - 3. Inspecting

## VIII. Water Supp ly and Fire Streams

- A. Water Distribution Systems
- B. Wet and Dry Barrel Hydrants
- C. Causes of Pressure Loss in Water Systems
- D. Fire Streams
- E. Nozzles, Types, Uses and Safety Precautions

### IX, Ropes and Knots

- A. Fire Service Rope Construction and Use
- B. Fire Service Knots, Basic Terminology

## X. Search and Rescue

- A. Structure Fire Search and Rescue Tactics
- B. Ladders
- C. Types of Fire Service Ground Ladder Safety Practices

#### XI. Building Construction

- A. Structural Design
- B. Construction Characteristics
- C. Terminology
- D. Structural Components
- E. Truss Roof Collapse

### XII. Salvage and Overhaul

- A. Safety Consideration
- B. Indications of Potential Building Collapse
- C. Searching for Hidden Fires
- D. Procedures for Extinguishing Hidden Fires
- E. Procedures for Making Buildings and Areas Safe After an Emergency
- F. Common Fire Service Salvage Equipment
- G. Grouping Building Contents for Salvage

### XIII. Ventilation

- A. Structure Fire Ventilation
  - 1. Vertical ventilation
  - 2. Horizontal ventilation
  - 3. Long distance opening
  - 4. Natural ventilation
  - 5. Mechanical ventilation
    - a. Heating, ventilation, and air conditioning
    - b. Smoke fans
    - c. Water

### B. Roof ventilation

- 1. Expandable cut
- 2. Center Rafter Cut
- 3. Triangular cut
- 4. Trench cut or strip cut

### C. Obstacles to ventilation

- 1. Access
- 2. Security devices
- 3. Height
- 4. Planning
- 5. Personnel assignment
- 6. Unfamiliar building layout
- 7. Ventilation timing

## D. Forcible Entry

- 1. Forcible Entry Tools
- 2. Breaking or Pulling Locks
- 3. Forcing overhead doors
- 4. Breaking Window Glass
- 5. Opening Walls
- 6. Opening Sheetrock Ceilings
- IX First Responder Medical

## **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)
No Value
Specify "Other" here:
No Value
Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition andApplication as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)
No Value
Specify "Other" here:
No Value
Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)
No Value
Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online coursewill offer:  No Value
NO VAIDE
Specify "Other" for Response #3 here:
No Value
Specify "Other" for Response #4 here:
No Value
Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)
No Value
Specify "Other" here:
No Value .
Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously.  Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – selectall that apply)

No Value	
No Value	
Specify "Other" here:	
No Value	
Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one	
or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down	-
menu	-
- select all that apply)	
No Value	1
Specify "Other" here:	
No Value	
NO Value	Ċ
	1
Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education	
meetsregular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-downmenu – select all that apply)	-
No Value	i
Specify "Other" here:	-
No Value	
Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent	
withlocal district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title	:
5 Section55208. (Possible Responses in the pull-down menu – select all that apply)	
No Value	1
Specify "Other" here:	
	- Bride
No Value	
	-
Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery.  FacultySelection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all	1.0
that apply)	1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
No Value	1
Specify "Other" here:	
	!
No Value .	
Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and	
Workload asdefined by Title 5 Section 55208. (Possible Responses in the pull-down menu)	
No Value	12 the add 1
Response #12: Complete this section only for noncredit courses. Total hours of instruction:	y Vernage

No Value

Response #13: Complete this section only for noncredit courses. Total instructor contact hours (regular & effective contact): Response #14: Complete this section only for noncredit courses. Total of outside-of-class work **CE Addendum** Response #1: Can this course be offered in a Correspondence Education format? Correspondence means that the course content, student work, and student feedback are delivered in a print only format without the aid of technology. No - provide rationale in comment box and bypass the CE Addendum and continue to the next tab in eLumen Add comments here: course requires completing ride along hours on the ambulance Response #2: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title5 Section 55260. No Value Response #3: Explain how the instructor will maintain standards of course quality and achieve course outcomes by distributing therequired number of Carnegie unit hours per week using Correspondence methodologies. Provisions of Title 5 Section 53203/55261 No Value Specify "Other" here: No Value Response #4: Complete questions 4, 5 and 6 for noncredit courses. Total hours of instruction: No Value Response #5: Complete questions 4, 5 and 6 for noncredit courses. Total instructor contact hours (regular & effective contact): No Value Response #6: Complete questions 4, 5 and 6 for noncredit courses. Total of outside-of-class work hours: No Value Response #7: Explain how the instructor will meet The Americans with Disabilities Act (ADA) and The Rehabilitations ACT (508) requirements in designing this course. As per Title 5 Section 55263(b) Specify "Other" here: No Value

Response #8: Explain how this course will meet the same quality standards as its in-person counterpart. Course Quality Standards asdefined by Title 5 Section 55261. This Correspondence course will offer:

No Value
Specify "Other" here:
No Value
Response #9: Explain how the instructor will conduct regular and effective contact between the instructor and students. RegularEffective Contact as defined by Title 5 Section 55262.
No Value
Specify "Other" here:
No Value
Response #10: Explain how the instructor will promote regular and effective contact among students asynchronously. Regular EffectiveContact as defined by Title 5 Section 55262
No Value
Specify "Other" here:
No Value
Response #11: Explain the process the department faculty used to determine this course was a good fit for Correspondence delivery. Faculty Selection and Workload as defined by Title 5 Section 55264
No Value
Specify dates and "other" here:
No Value

## Exhibit C



## Merced College Course Outline of Record Report 06/27/2022

## FIRE63A: Basic Firefighter I, Academy A

### **General Information**

Author:

Gabriela Garcia

Course Code (CB01):

FIRE63A

Course Title (CB02):

Basic Firefighter I, Academy A

Cohort:

Fire Technology

**Proposal Start:** 

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:Yes

Course Control Number (CB00) :CCC000359196 Curriculum Committee Approval Date:09/05/2019

Board of Trustees Approval Date:10/08/2019

External Review Approval Date:Pending

Course Description:

This course provides manipulative and technical training in basic concepts of fire department organization, miscellaneous equipment and tools, fire behavior and extinguishment theory, fire fighter safety, self-contained breathing apparatus, and portable fire extinguishers. The course also provides training in ropes, knots, hitches, hoses, nozzles, appliances, ground ladders, forcible entry, and confined space rescue. Students must supply instructor-approved personal protective equipment (required instructional material).

Submission Rationale:

No value

Author:

No value

## Faculty Requirements

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred: No value

Additional Bachelors or Associates Discipline

No value

Preferred

Course Development Options

Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options	
Course is not a basic skills course.	Course is not a special class.	Letter Grade Methods     Pass/No Pass	
Allow students to gain Credit for Prior	Allowed Number of Retakes	Course Prior To College Level (CB21)	
Learning (CPL)	0	No value	
			77 00000
Credit for Prior Learning assessment methods accepted	Retake Policy Description	Allow Students To Audit Course	
No value	No value	Allow Students to Addit Course	
Course Support Course Status (CB26)			
No value			
Associated Programs	·=- ·		
Associated Flograms		THE COMMENSATION OF THE THE PART OF THE PA	
Course is part of a program (CB24)			
Associated Program	Award Type	Active	
Fire Technology (CT)	Certificate of Achievement (16+ units)	2018U	
Transferability & Gen. Ed. Option	ons		
Course General Education Status (CB25)	<b>\</b>		1
No value	Torontonaliti	its Status	1
Transferability (CB05)	Transferabili Not transferable	ny Status	-
Not transferable	NOT Transferable		1

## Units and Hours: Lecture Units and Hours

## Summary

Minimum Credit Units (CB07)8

Maximum Credit Units (CB06)8

Total Course in-Class (Contact)

126

Hours

**Total Course Out-of-Class** 

252

Hours

**Total Student Learning Hours**378

Faculty Load	0				
Credit / Non-Cre	edit Options				
Course Credit Status (	CB04)	Course Non Credi	it Category (CB22)	Non-Credit Characteris	stic
Credit - Degree Applica	ble	Credit Course.		No Value	
			-14		
Course Classification C	Code (CB11)	Funding Agency (	Category (CB23)	Cooperative Work E	xperience Education
Gredit Course.		Not Applicable.		Status (CB10)	
Variable Credit Cou	rse				
Weekly Student	Hours		Course Stude	nt Hours	
tootilly comment	In Class	Out of Class	Course Duration		
Lecture Hours	7	14	Hours per unit d		
Laboratory Hours	0	0	Course In-Class	(Contact) Hours	
Activity Hours	0	0	Lecture	126	
			Laboratory	0	
			Activity	0	
			Total	126	
			Course Out-of-C	lass Hours	
			Lecture	252	
			Laboratory	0	
			Activity	0	
	`		Total	252	•
Time Commitme	nt Notes for S	Students			
Most weekends 8-5 and	travel time to traini	ing grounds at different loca	tions		
Faculty Load					
Extra Duties: 0			Faculty Load: 0		
Units and Hours	: Lecture Unit	s and Hours - Weel	dy Specialty Hours		
a plantage) is the presentation of the second		to the state of th			s Ser - participation on the second second
Activity Name		Туре	In Class	Out of Class	
No Value		No Value	No Value	No Value	

Units and Hours	: TBA Units a	nd Hours			no ware at the build like the s
Summary					
Minimum Credit Units	(CB07)0				
Maximum Credit Units	(CB06)0				
Total Course In-Class ( Hours	Contact) 54				
Total Course Out-of-C Hours	lass 0				
Total Student Learning	Hours 54				
Faculty Load	0				
Detail					
Weekly Student Hours			Course Student Hours		
	In Class	Out of Classs	Course Duration (Wee	ks) 18	
Lecture Hours	0	0	Hours per unit divisor	54	
Laboratory Hours	3	0	Course In-Class (Conta	ct) Hours	
<b>Activity Hours</b>	0	0	Lecture	0	
			Laboratory	54	
			Activity	0	
			Total	54	
			Course Out-of-Class H	ours	
			Lecture	0	**
			Laboratory	0	
			Activity	0	
			Total	0	

No Value

**Faculty Load** 

Extra Duties: 0

Faculty Load: 0

Units and Hours: TBA Units and Hours - Weekly Specialty Hours

**Activity Name** 

Type

In Class

Out of Class

No Value	No Value	No Value	No Value	
		I I've to be about Manager to	1 1 1 m 1 m m m	ad 100 c
Pro requisites Co requisites	Anti roquioitos enc	Advisaries		
Pre-requisites, Co-requisites, A	Anti-requisites and	Advisories		
Prerequisite				
FIRE30 - Fire Protection Organiza	ation			
<ul> <li>Categorize the basic compone and fire behavior, and its effect</li> <li>Identify the various types of practivities, at a basic level.</li> </ul>	ents of a fire as a chemical into on environment, at a base of private fire protections.	sic level. ction equipment and systems and de	us occupations in fire protection.  Id the main factors that influence fire spre  escribe the purpose and scope of their  tus, equipment, and personal safety	:ad
OR				
Prerequisite				
	r with signed waiver from a	a supervising officer of the agency th	nat the candidate possesses the requisite	
to a passer to a constitution of the second		ALL STREET WHEN A STREET WHEN A STREET WAS A	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT	
Entrance Skills				
Entrance Skills	Description			
No value	No value			
The value				
			and the contraction of the contr	
Limitations on Enrollment				
Limitations on Enrollment	Description			
Physician's clearance for strenuous activity.N	o Value			
The second state of the second	angues a sa se se se d'anne	enc. The property of a particles and it is it in the	P. J. P. L. T. S. S. STORES IN S. DON'S S.	
Specifications		- ·		
and the second s	No. 188 Mars - 17 - 28 - 28 67 - 27 - 40 488 - 44 A	and the second of the second s	and the second of the problem of second of the	-1 11 1
Methods of Instruction				1
Methods of Instruction	Lecture			
Rationale	No value			1
Nauvilaic	110 10100			
				***************************************
Methods of Instruction	Demonstration			

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Video, film and slides

Methods of Instruction

Other

Rationale

Other - Tours

### **Assignments**

### READING

- 1. Text
- 2. Instructor handouts.

### WRITING

- 1. Complete student information sheets
- 2. Written assignments on the following:
- a. Ropes. knots, and hitches.
- b. Hose.
- c. Fire protection systems.

#### OUTSIDE

- 1. Reading and reviewing class texts and handouts.
- 2. Skills development

### CRITICAL THINKING

- 1. Analyze the functions and responsibilities of each position on a typical fire department organizational chart
- 2. Evaluate fire control situations for safety and proper control techniques
- 3. Describe various fire suppression tools and equipment and their uses.

Methods of Evaluation	Rationale
MCCHOOS OF Evaluation	1 to city i faire

Class Participation

No value

Other

Other - Manipulation skills testing

Other

Other - Written quizzes

Exams/Tests

No value

Other

Other - Written reports

## Equipment

Essentials of Firefighting and Fire Department Operations, workbook, optional

Title

California State Fire Marshal approved workbooks and texts for portions of the program that are certificated modules, and are instructed by state certified instructors

## Textbooks

Author

1	nternational Assoc. of Fire	Fundamentals of Firefighter	Jones and Bartlett	2017	9781284098211
(	hiefs and NFPA	Skills; Evidence Based Practices			

Publisher

Date

ISBN

Other Instructional M	-taviala					
Other Instructional M	ateriais					
Description		Instructor Handouts				
Author	- 1	No value				
Citation	ı	No value				
			/			
Materials Fee						
Materials ree						
Varies with required or d	esired certifications					
ALBERT A. R. LANS AND RESIDENCE WAS D. S. AUST M. H. P. D.		A	W T 135 - 225 Substitute	NA PROS STREET		/ 100 t t re m
Learning Outcom	es and Objectives			* 04.4		W 0 10
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Course Objective	s					
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covered in this objective.	s as defined by the professio	mai galdennes of the Firengin	er i standards of the Camon	na State Fire Mai	Isrial All SLO	3 die
CSLOs						
				faces Even	ected SLO Perfor	mance: 70.0
Analyze a fire or rescue/	contined space situation and	d appropriately apply the pro	per sarety and rescue techn	iques.	acted Sto Perior	mance. 70.0
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Fire Technology	At a basic level apply the	principles of fire technology.				
Fire Technology (CT)						
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ISLOs	Cognition - Use critical th	hinking skills to analyze, synthesia	e and evaluate ideas and infor	mation		
Core ISLOs						
Tage - Control Control - C						
Develop competency in o	lonning and using an SCBA	as well as analyzing conditio	ns to appropriately determi	ne when respira	tory protection	on is
needed.			E COLO DE TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	Expe	cted SLO Perfor	mance: 70.0
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Fire Technology Fire Technology (CT)	At a basic sevel apply the	principles of fire technology.				
37 1	Demonstrate an apprecia	ation of lifelong learning.				
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ISLOs Core ISLOs	Cognition - Use critical th	ninking skills to analyze, synthesiz	e and evaluate ideas and infor	nation		
Epinocentral took group - the Wale - Training - Annual to - Mining - Applications - App	a top response different somber for the given of the contract of the state of the contract of	or the probability and introduced as a contraction of the second	or the specification of the form of the second specification of the second specific	Address the Tenner of the Company of	ada a see the thi	in the milk-end
A	range a complete of the co	and black in the		. Euro	cted SLO Perfor	mance: 70.0
Describe the need for an	d apply appropriately knots	and nitches with ropes.		Expe	CO SEO PERON	
Fire Technology	At a basic level apply the	principles of fire technology.				
Fire Technology (CT)	and a second second second	3/1				

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Develop competency in lifting, carrying, and throwing ground ladders.

Expected SLO Performance: 70.0

Fire Technology At a basic level apply the principles of fire technology. Fire Technology (CT) ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs

Demonstrate competency in using hoses and nozzles.

Expected SLO Performance: 70.0

Fire Technology

At a basic level apply the principles of fire technology.

Fire Technology (CT)

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

ISLOs Core ISLOs

### Outline

## **Course Outline**

## I. Fire service organization and responsibility

- A. Relationships of fire department
  - 1. Relationships of fire department with other local agencies
  - 2. National, federal, and state fire service organizations
  - 3. Community organizations having an interest/relationship to public fire protection
- B. Fire department functions
- C. Fire department plans
- D. Principles of the standardized emergency management system
- E. Fire prevention function
- F. Fire Department service resources
- G. Duties of fire service ranks and positions
  - 1. Fire service agency rules and regulations
  - 2. Discipline in the fire service
  - 3. Fire fighter safety and physical fitness
  - 4. fire service labor organizations
  - 5. Work site health and safety legislation
  - 6. California joint apprenticeship program
  - 7. Sexual harassment recognition and prevention
  - 8. Cultural diversity
  - 9. Training and education programs
- H. California fire service and rescue emergency mutual aid plan

### II. Miscellaneous equipment and tools

- A. Hand tools
  - 1. characteristics and functions of fire service hand tools
  - 2. Inspection and maintenance of fire service hand tools
- - 1. Characteristics and functions of fire service power tools
  - 2. Inspection and maintenance of fire service power tools
- C. Record management systems for hand and power tools
- D. Characteristics, functions, inspections, and maintenance of
  - 1. Chain saws
  - 2. Rotary (circular) saws
  - 3. Pneumatic air chisels
  - 4. Fire service lighting equipment
  - 5. Fire service headlamps
  - 6. Fire service jacks
  - 7. Thermal imaging devices
- E. How to set up portable lights
- F. How to ignite and extinguish road flares and fuses
- G. Safety concerns for utility interruptions

### H. Navigational tools for the fire service

### III. Fire behavior and extinguishment theory

- A. Building construction
  - 1. Introduction to building construction
  - 2. Building components
  - 3. Purpose of fire resistive ratings for walls and buildings
  - 4. Basic roof construction and safety considerations
  - 5. Indications of potential building collapse
- B. Heat energy
  - 1. Types of heat measurement
  - 2. Sources of heat energy
  - 3. Theory and fundamentals of heat transfer
  - 4. Terms related to the fundamentals of combustion
  - 5. Elements of the combustion process
  - 6. Products of combustion
  - 7. Physical properties of common combustion gases
- C. Phases of fire
  - 1. Characteristics of pyrolysis, rollover, flashover, and backdraft
  - 2. Types and causes of explosions
- D. Characteristics and functions of extinguishing agents
- E. Properties of water as they relate to fire fighting

## IV. Fire fighter safety

- A. General safety precautions for all emergency situations
- B. Personal protective equipment for the fire service
  - 1. Reasons why personal protective equipment can fail
  - 2. characteristics and functions of personal alarm devices
  - 3. How to don structural PPE within one minute, doff, and prepare for rescue
- C. Traffic control considerations for energized electrical equipment
- D. Procedures for responding on apparatus
- E. Fire fighter injuries and fatalities
- F. Procedures for using rapid intervention crews
- G. Performing an assessment on a downed fire fighter
- H. Personal accountability reports

### V. Self-Contained breathing apparatus

- A. Conditions requiring respiratory protection
- B. Types of self-contained breathing apparatus
  - 1. SCBA components and accessories
  - 2. Factors affecting reduced air supply duration of SCBA
  - 3. Safe use of SCBA
  - 4. Emergency procedures when using SCBA
  - 5. How to don a SCBA
    - a. Facepiece with a low pressure hose
    - b. Facepiece with a facepiece-mounted regulator
    - c. Over-the-head method
    - d. Sling/coat method
    - e. From vehicle or wall mount
  - 6. How to remove a SCBA
  - 7. How to pass through a narrow opening while wearing a SCBA
  - 8. How to change a SCBA air cylinder
    - a. One-person method
    - b. Two-person method
  - 9. Methods used to fill SCBA cylinders
  - 10. How to fill a SCBA cylinder, cascade method
  - 11. Inspection and maintenance of SCBA
  - 12. Procedures used to clean and sanitize SCBA

### VI. Portable fire extinguishers

- A. Classification of fire and fire extinguishers
- B. Classification marking on portable fire extinguishers
- C. Portable fire extinguisher laws and regulations
- D. How to operate a portable extinguisher using "PASS" method
- E. Safety precautions when using portable fire extinguishers

- F. Characteristics and functions of portable fire extinguishers
- G. How to operate a gas cartridge portable fire extinguisher
- H. How to operate a stored-pressure portable fire extinguisher
- 1. Inspection and maintenance of portable fire extinguishers
- J. How to service a gas cartridge portable fire extinguisher
- K. How to service a stored-pressure portable fire extinguisher

#### VII. Ropes, knots and hitches

- A. Characteristics of functions of fire service rope and webbing
  - 1. Inspection and maintenance of fire service rope and webbing
  - 2. Introduction to fire service rescue knots
  - 3. How to tie knots
    - a. half hitch
    - b. clove hitch
    - c. square knot
    - d. bowline
    - e. becket bend
    - f. half sheepshank (trucker's hitch)
    - g. family of eight knots
    - h. handcuff knot
    - i. overhand bend (water knot) with webbing
- B. Safety considerations when hoisting or lowering equipment
  - 1. How to tie-off for hoisting
    - a. a pick-head axe
    - b. a pike pole
    - c. a roof ladder
    - d. a dry hoseline
    - e. a charged hoseline
  - 2. Methods of storing rope
  - 3. How to make a barrel coil
  - 4. How to load a drop bag

### VIII, Hose, nozzles, and appliances

- A. Characteristics and functions
  - 1. Fire hose
  - 2. Fire hose couplings
  - 3. Nozzles
- 8. Inspection and maintenance
  - 1. Fire hose
  - 2. Fire hose couplings
  - 3. Nozzles
- C. Characteristics and functions of
  - 1. Fire service Wyes
  - 2. Fire service Siamese
  - 3. Special hose appliances
  - 4. Hose appliances
- D. How to make Rolls
  - 1. In-service straight roll
  - 2. Out-of-service straight roll
  - 3. Donut roll, one person method
  - 4. Donut roll, two person method
  - 5. Twin donut roll
    - 6. Self-locking twin donut roll
- E. Procedures for inspecting, coupling, and uncoupling hoseline
- F. How to couple hoseline
  - 1. One-person, foot-tilt method
  - 2. Two-person method
  - 3. One-person, between-the-feet method
  - 4. One-person, over-the hip method
- G. How to uncouple a tight coupling
  - 1. One-person, knee-press method
  - 2. Two-person, stiff-arm method
- H. How to attack a nozzle to a hoseline
  - 1. One-person tilt method
  - 2. Two-person Method

- I. How to siamese two lines into one
- J. How to wye hoselines together
- K. Hose clamp
  - 1. Characteristics and functions
  - 2. How to operate
- L Characteristics and functions of tools
  - 1. Spanner wrench
  - 2. Hose Roller
  - 3. Hose ramps and bridges
  - 4, Chafing blocks
- M. Basic hose loads and finishes
  - 1. How to make the accordion load, three-person method
  - 2. How to make the flat load, two-person method
  - 3. How to make the horseshoe load, two-person method
  - 4. Procedures for loading large diameter hose
  - 5. How to load large diameter hose on a reel
  - 6. How to flat load large diameter hose, three-person method
- N. Types of supply line hose lays
- O. How to make a hydrant connection
- P. Carries
  - 1. How to perform a horseshoe shoulder carry
  - 2. How to perform an accordion shoulder carry
  - 3. How to load and carry a working line
  - 4. How to perform the drain and carry
  - 5. How to advance the nozzle end of a hoseline
  - 6. How to advance an uncharged 2 Y, \* hose with attached nozzle
  - 7. How to advance a charged hoseline into structure, two-person
  - 8. How to advance a 2 )1," hoseline up a stairway, three person
  - 9. How to advance a 2 )1," hoseline up an exterior stairway, using pike pole three-four person
  - 10. How to advance a 2 )1," hoseline down a stairway
  - 11. How to connect a 2)1," hoseline to an upper floor standpipe and advance the line, two-person method
  - 12. How to advance an uncharged 2)1," hoseline up an extension ladder and into a window, three-person method
  - 13. How to advance a charged 2 )1," hoseline up an extension ladder and into a window, four-person method
  - 14. How to extend a charged 2)1,' hoseline
  - 15. How to reduce a hoseline
  - 16. Procedures for retrieving a loose hoseline
  - 17. How to replace a section of hose in a charged 2)1," hoseline
- Q. Selection and use of fire streams
  - 1. How to use a booster line
  - 2. How to operate a medium-size attack line, two person
  - 3. How to operate a large-size attack line, one person
  - 4. How to operate a large-size attack line, two person
  - 5. How to operate a large-size attack line, three person
  - 6. How to operate a large-size attack line, three person method
  - 7. How to operate a charged 2 Yon hoseline from a ladder
- R. Characteristics and functions of master stream appliances
  - 1. How to deploy a portable monitor unit
  - 2. Characteristics and functions of foam producing devices
  - 3. Inspection and maintenance of foam producing devices

#### IX. Ground ladders

- A. Types of ladders employed by the fire service
  - Characteristics and functions of fire service ground ladders
  - 2. Ladder design and construction
  - 3. Selection methods for the proper size ladder for different situations
  - 4. Ladder safety practices
  - 5. Methods of improvising with ground ladders
  - 6. Inspection and maintenance of fire service ground ladders
  - 7. Ladder movement
    - a. how to remove ladders from apparatus, one-person
    - b. how to remove ladders from apparatus, two-person
    - c, how to lift and lower a ladder, from the ground, one-person
    - d. how to carry a ladder, one-person, high-shoulder method
  - 8. carrying ladders
    - a. one-person, high-shoulder method

- b. a straight ladder, one-person, arm's length method
- c. one-person, low-shoulder method
- d. extension ladder, two or three-person, arm's length-on-edge method
- e. three-person, flat-shoulder method
- f. extension ladder, three-person, flat-arm's length method
- g. extension ladder, four to six-person, flat-shoulder method
- h. four to six-person, flat arm's length method
- i. through a narrow passageway from flat-shoulder carry
- 9. How to extend an extension-type A-frame combination ladder, one person method
- 10. How to raise and ladders
  - a. a folding (attic) ladder, one-person method
  - b. a combination A-frame ladder, one person method
  - c. a straight or roof ladder
  - d. and extend an extension ladder, one-person high-shoulder method
  - e. a straight or extension ladder, two-person, beam method
  - f. a straight or extension ladder, two-person, flat-raise method
  - g. extend, and lower an extension ladder, three-person, flat-raise method
  - h. an extension ladder, four-person, flat-raise method
- 11. How to deploy a roof ladder, one-person method
- 12. How to deploy a roof ladder, two-person method
- 13. How to tie a ladder halyard
- 14. How to pivot a free-standing straight or extension ladder, one-person method
- 15. How to pivot a free-standing straight or extension ladder, two-person method
- 16. How to heel/foot a ladder
- 17. How to adjust a ladder's climbing angle, one-person method
- 18. How to climb a ladder
- 19. How to carry a pike pole up a ladder
- 20. How to carry a hand tool up a ladder
- 21. How to tie a ladder in
- 22. How to work on a ladder, leg-lock method
- 23. How to dismount a ladder into a window
- 24. How to dismount a ladder onto a roof
- 25. How to raise a pole ladder, four-person, flat-raise method
- 26. How to raise a pole ladder, five to six-person, flat-raise method

## X. Forcible Entry

- A. Principles of breaking or pulling locks
- B. Principles of forcing single-entry doors
- C. Principles of overhead doors
- D. Principles of opening walls
- E. Principles of opening partitions
- F. Principles of opening ceilings with a pike pole
- G. Principles of opening floors
- H. How to force open and remove security bars
- I. How to force open and remove security screen
- J. Operating principles for various window styles
- K. Principles of breaking window glass
- L. How to force open a double-hung/checkrail window
- M. How to force open a casement (kinged) window
- N. How to force open a awning or jalousie louvered window
- O. How to force open a projected (factory) window
- P. How to force open a Lexan Window
- Q. Dangers of forcing entry through doors, windows, and walls

## XII. Confined space entry and rescue operations

- A. Compliance with California regulations
- B. Compliance with federal regulations
- C. Confined space hazards
  - 1. Oxygen-deficient atmosphere
  - 2. Toxic and/or hazardous vapors
- D. Atmospheric monitoring
  - 1. Sample atmosphere
  - 2. Confirmed it as tenable
  - 3. Identify hazards
  - 4. Air blower and flexible duct

- 5. Individual monitors
- E. Hazard control
- F. Personal protective equipment
  - 1. Protective clothing
    - a. For known hazards
    - b. For possible hazards
  - 2. Lifelines for each member
  - 3. Radio
- 4. Fully equipped and dressed out backup crew
- G. Confined space rescue
  - 1. Size up (assessing the incident)
  - 2. Identify on-scene or available experts
  - 3. Stabilize entrapping machinery
  - 4. Access the patient
  - 5. Disentangle the patient
  - 6. Remove the patient
- H. Rescue equipment, knots and systems

#### XI. Rescue

- A. Components of rescue operations
- B. Safety considerations during a rescue search in a burning building
- C. Search and rescue procedures in a burning, smoke-filled building
- D. Characteristics of primary and secondary searches in a structure
- E. How to lift and carry a victim
  - 1. One-person method
  - 2. Cradle-in-the -arrns method
  - 3. Two-person, chair method
  - 4. Two-person, seat-carry method
  - 5. Two-person, extremities method
  - 6. Three-person method
- F. How to drag a victim, turnout coat or blanket drag method
- G. How to construct an improvised stretcher
- H. Why stairways are preferred over ladders for rescue
- I. How to assist a conscious victim down a ladder, two-person method
- J. How to move an unconscious victim down a ladder, two-person method
- K. How to use a ladder for ground level rescue, three-person method
- L. How to tie and attach the rescue chest harness
- M. How to wrap a victim before securing in a rescue litter
- N. USAR incident command system
- O. Basic, light, medium, and heavy operational levels for USAR teams
- P. Search marking systems used by USAR teams
- Q. Structure and hazard markings used by USAR teams
- R. Supporting USAR teams during deployment

## Lab Outline

Lab content is embedded into and contains the same course content as lecture.

## **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- face-to-face lab and online lecture and activities - hybrid

Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- · lecture video
- · discussion board activities
- quiz activities
- content via Google Slide / PowerPoint presentations
- supplemental instructional video, such as YouTube, TedTalks, and PBS

Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- · work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- · weekly lectures
- · discussion opportunities between students weekly
- · student-to-student activities such as group work
- regular assessment: both formative and summative
- · regular feedback weekly
- re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- weekly lectures
- · weekly announcement using the LMS (Canvas)
- · online orientation non-mandatory
- timely feedback within the LMS (Canvas) within 72-hours of the due date
- · gradebook alerts weekly
- · midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- LMS (Canvas) email respond within 24-hours M-F
- office phone respond within 24-hours M-F
- periodic online review/study sessions non-mandatory

periodic online workshops – non-mandatory
Specify "Other" here:
No Value
Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)
<ul> <li>weekly discussion boards – robust posts and replies</li> <li>group work, peer review, small group discussion boards, other (specify in comment box)</li> <li>LMC (Canvas) email</li> </ul>
Specify "Other" here:
No Value
Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)
<ul> <li>The instructor has conducted a self-assessment of the CVC-OEI Rubnc.</li> <li>The instructor's course has been 'Badged' by the CVC-OEI Design Academy.</li> <li>The instructor will be using a 'Blueprint' course created by Merced College.</li> </ul>
Specify *Other" here:
No Value
Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)
Dean of the Cohort/Department     Faculty teaching the course
Specify "Other" here:
No Value
Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)
• other (specify in comment box)
Specify "Other" here:
Not completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in the comment box)

Specify "Other" here:

Not recommended but can be hybrid in an 'emergency'

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

- Yes

# Exhibit D



# Merced College Course Outline of Record Report 06/27/2022

# FIRE63B: Basic Firefighter I, Academy B

General Information	, a soul to 1 has some members for a Applitus	and the second s
Author.	- Gabriela Garcia	
Course Code (CB01):	FIRE63B	
Course Title (CB02) :	Basic Firefighter I, Academy B	
Cohort:	Fire Technology	
Proposal Start:	2020U	
TOP Code (CB03):	(2133.00) Fire Technology	
CIP Code:	(43.0201) Fire Prevention and Safety Technolo	gy/Technician
SAM Code (CB09) :	Clearly Occupational	
Distance Education Approved:Yes		
Course Control Number (CB00) :CCC000380830		
Curriculum Committee Approval Date:09/05/20	19	
Board of Trustees Approval Date:10/08/2019		
External Review Approval Date:Pending		
Course Description:	control, salvage and overhaul operations, fire	cal training in basic concepts of ventilation, fire protection water systems, fire protection systems, tions, vehicle extrication, wildland fire fighting, urban
Submission Rationale:	No value	
Author.	No value	
Faculty Requirements	and services to control of the service of the servi	
Master Discipline Preferred:	Fire Technology	:
Alternate Master Discipline Preferred:No value		
Bachelors or Associates Discipline Preferred:No	value	
Additional Bachelors or Associates Discipline Preferred:	No value	
Course Development Options		
Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options
Course is not a basic skills course.	Course is not a special class.	- Letter Grade Methods
Allow students to gain Credit for Prior	Allowed Number of Retakes	Course Prior To College Level (CB21)
Learning (CPL)	0	No value

	Credit for Prior Learning assessment	Retake Policy Description	
	methods accepted	No value	☐ Allow Students To Audit Course
	No value		
	Course Support Course Status (CB26)		
٧.	Course is not a support course		
	Associated Programs		
ur telg	THE RESIDENT AND A SECURE OF THE PROPERTY OF THE PROPERTY OF THE SECURE	The state of the s	THE REPORT OF THE PROPERTY OF
	Course is part of a program (CB24)		
	Associated Program	Award Type	Active
	Fire Technology (CT)	Certificate of Achievement (16+ units)	2018U
		- 001 to 00 to 100 to 1	
	A STREET, CALLED SAN AND AND ADDRESS OF THE PARTY OF THE	AND IN THE REPORT OF THE PROPERTY AND THE RESERVE AND THE RESE	A CASE CONTRACTOR OF THE MARKET CONTRACTOR OF THE THROUGH S
	Transferability & Gen. Ed. Option	IS	
	Course General Education Status (CB25)		
	Not Applicable		
	Transferability (CB05)	Transferability Sta	****
			tus
	Not transferable	Not transferable	
	The second state of the second		
_			
	Units and Hours: Lecture Units a	nd Hours	
	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	The second section of the second section of the second section of the section of the second section of the section of the second section of the section of the second section of the sec	International control of the property of the control of the contro
	Summary		
	Minimum Credit Units (CB07)8		
	William Creat Sind (CD07)5		THE COLOR
	Maximum Credit Units (CB06)8		!
	Total Course In-Class (Contact) 126		Leading
	Hours		use.
	Total Course Out-of-Class 252		) 1
	Hours		
	Fatal Children Laurian Haum 270		- Acces
	Total Student Learning Hours378		
1	Faculty Load 0		1
			t
-	Credit / Non-Credit Options		
,	Course Credit Status (CB04)	Course Non Credit Category (CB22)	Non-Credit Characteristic
(	Credit - Degree Applicable	Credit Course.	No Value

Course Classification (	Code (CB11)	Funding Agency Co	ategory (CB23)	Cooperative Work Ex	operience Education
Credit Course.		Not Applicable.		Status (CB10)	
☐ Variable Credit Cou	rse				
Weekly Student	Hours		Course Stude	nt Hours	
	In Class	Out of Class	Course Duration	(Weeks)18	
Lecture Hours	7	14	Hours per unit d		
Laboratory Hours	0	0	Course in-Class	(Contact) Hours	
Activity Hours	0	0	Lecture	126	
			Laboratory	0	
			Activity	0	
			Total	126	
			Course Out-of-C	lass Hours	
			Lecture		
				252	
			Laboratory	0	
			Activity	0	
			Total	252	
Faculty Load					
Extra Duties: 0			Faculty Load: 0		
Units and Hours:	Lecture Unit	s and Hours - Weekl	v Specialty Hours		
Activity Name		Туре	In Class	Out of Class	
No Value		No Value	No Value	No Value	
Halfa and Harris	TDA Haife -		,	+ -	
Units and Hours:	IBA Units ai	na Hours			
Summary					
Summary Minimum Credit Units (	CR07)0				
william Credit Units (	C00770				1
Maximum Credit Units (	( <b>CB06</b> )0				
Total Course In-Class (Co Hours	ontact) 54				

Total Course Out-of-Cla Hours	ss 0				
Total Student Learning	Hours54				
Faculty Load	0				
Detail					
Weekly Student Hours			Course Student Hour	3	
	In Class	Out of Classs	Course Duration (	Weeks) 18	
Lecture Hours	0	0	Hours per unit div	isor54	
Laboratory Hours	3	0	Course In-Class (Co	ontact) Hours	
Activity Hours	0	0	Lecture	0	
			Laboratory	54	
			Activity	0	
			Total	54	
			Course Out-of-Clas	s Hours	
			Lecture		
			Laboratory	0	
			Activity	0	
			Total	0	
Time Commitment Note	s for Students				
No Value					
Faculty Load					
Extra Duties: 0			Faculty Load: 0		
THE PERSON NAMED IN COLUMN TWO ISSUES OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUM				arrive of calcium when on a formation	- Andrews
Units and Hours:	TBA Units and	d Hours - Weekly S	Specialty Hours		ration to the country of
TO BE STOCKED AND THE CONTRACTOR AND	Access to the second se	1 4/45	CANA HARAKEMAN EN AN ANTAMANAN EN	A THE PART THE PART THE PART OF THE PART OF	the state with the state of the state of
Activity Name		Туре	In Class	Out of Class	,
No Value		No Value	No Value	No Value	

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

# ENGL85A - Foundations in Academic Literacy I

- A. Use the reading process, at the pre-transfer level, to access a variety of texts.
- A1, Make connections between course readings and prior knowledge.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- A5. Identify authors' claims and primary and secondary support.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts
- C1. Summarize a variety of academic texts to make inferences and draw conclusions.

#### **Outcomes**

- . Use the reading process, at the pre-transfer level, to access a variety of texts.
- · Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Prerequisite

# FIRE63A - Basic Firefighter I, Academy A

#### **Objectives**

 A. Perform skills and tasks as defined by the professional guidelines of the Firefighter 1 standards of the California State Fire Marshal. All SLO's are covered in this objective.

# **Outcomes**

- Analyze a fire or rescue/confined space situation and appropriately apply the proper safety and rescue techniques.
- Develop competency in donning and using an SCBA as well as analyzing conditions to appropriately determine when respiratory protection is needed.
- Describe the need for and apply appropriately knots and hitches with ropes.
- Develop competency in lifting, carrying, and throwing ground ladders.
- Demonstrate competency in using hoses and nozzles.

# AND

# Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

# Entrance Skills Entrance Skills Description No value No value Limitations on Enrollment

Limitations on Enrollment Description

Physician's clearance for strenuous activity. No Value **Specifications** Methods of Instruction Methods of Instruction Lecture No value Rationale Methods of Instruction Demonstration No value Rationale Methods of Instruction Other Other - Video, film and slides Rationale Assignments READING 1. Text WRITING 1. Draft a letter of application resume 2. Compete an application package for a fire department within the Merced College district OUTSIDE 1. Reading and reviewing class texts 2. Skills development with various tools and appliances 3. Skills development with breathing apparatus **CRITICAL THINKING** 1. Analyze assigned tasks and select the use of proper tools and equipment to accomplish those tasks; 2. Demonstrate the ability to select the proper methods to protect the contents of a fire building and apply the methods to various simulated or real 3. Analyze a simulated fire scene and apply the seven steps of size-up in their proper sequence. Methods of Evaluation Rationale No value Class Participation Other Other - Manipulation skills testing (student demonstration) Other - Written quizzes Other Exams/Tests No value Equipment No Value **Textbooks** Author Title **Publisher** Date ISBN

2013 Essentials of Fire Fighting and -Brady International Fire Service Fire Department Operations Training Association 2017 9781284098211 International Association of Fire Fundamentals of Fire Fighter Jones and Bartlett Skills Chiefs; National Fire Protection Association Other Instructional Materials No Value Materials Fee No value Learning Outcomes and Objectives Course Objectives A. Perform skills and relate knowledge equivalent to the requirements for Firefighter I certification as determined by the California State Fire Marshal. This objective covers all SLO's. **CSLOs** Evaluate the emergency for safety needs and hypothetically apply appropriate methods of fire attack to fire scenarios involving various classification of fires Expected SLO Performance: 70.0 Fire Technology At a basic level apply the principles of fire technology. Fire Technology (CT) Demonstrate the ability to evaluate and adhere to ethics and compassionate treatment of patients and victims. Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information ISLOS Core ISLOs Analyze in order to apply appropriate vehicle extrication methods to the need for extricating victims from entrapment Expected SLO Performance: 70.0 At a basic level apply the principles of fire technology. Fire Technology Fire Technology (CT) Demonstrate the ability to evaluate and adhere to ethics and compassionate treatment of patients and victims. ISLOS Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Recognize hazardous materials situations and determine safety, isolation, and notification needs in an emergency hazardous materials scene; Expected SLO Performance: 70.0 Fire Technology At a basic level apply the principles of fire technology. Fire Technology (CT)

Demonstrate the ability to evaluate and adhere to ethics and compassionate treatment of patients and victims.

ISLOs Core ISLOs	Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information
emonstrate com	petency in the provision of medical care at the level of State Fire Marshal First Responder, Medical. Expected SLO Performance: 70.0
Fire Technology Fire Technology (CT)	At a basic level apply the principles of fire technology.
ISLOs	Demonstrate the ability to evaluate and adhere to ethics and compassionate treatment of patients and victims.  Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information
Core ISLOs	Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

# Outline

# Course Outline

# I. Ventilation

- A. Safety considerations during ventilation operations
- B. Fireground use of forced ventilation equipment
- C. Horizontal ventilation principles and procedures
- D. Consequences of improper horizontal ventilation
- E. How to perform hydraulic ventilation with a fog nozzle
- F. Considerations given vertical ventilation openings
- G. Principles and procedures for ventilating various roof designs
- H. Principles and procedures for vertical ventilation
- I. Consequences of improper vertical ventilation
- J. Using existing roof openings for vertical ventilation
- K. Principles of strip ventilation
- L. Principles of positive pressure ventilation
- M. How to
  - 1. Operated a positive pressure ventilation
  - 2. Use a smoke ejector to force ventilation through a horizontal opening
  - 3. Hang a smoke ejector outside a window using a ladder
  - 4. Hang a smoke ejector in a hall or archway
  - 5. Hang a smoke ejector in an A-frame
  - 6. Hang a smoke ejector in a door or window casing
  - 7. Hang a smoke ejector on a ladder in a stairway
  - 8. Hang a smoke ejector from the top of a door
- N. Using flexible duct attachment for ventilation
- O. Built-in ventilation devices
- P. Controlling the spread of smoke and fire through duct systems
- Q. Below-grade ventilation

# II. Fire Control

- A. Principles underlying the various modes of fire attack
- B Types of fire streams and point of application for Class A fires
- C. Basic Guidelines for initial attack
- D. Why water extinguishes Class A fires
- E. Safety precautions when using water to extinguish a fire
- F. Safety precautions when handling hoseline
- G. How to safely attack an interior or exterior Ciass A fire
- H. Methods used to protect exposures
- I. How to protect exposures
- J. Basic considerations for vehicle fires
- K. Safety precautions for vehicle fires
- L. Accessing passenger vehicle compartments during a fire
- M. Physical properties of combustible and flammable liquids and gases

- N. Extinguishing Class B fires
- O. How to control a flammable liquid gas cylinder fire while operating as a member of a crew

# III. Salvage and overhaul

- A. Purpose and value of salvage operations
- B. Safety considerations during salvage and overhaul operations
- C. Considerations for atmospheric monitoring
- D. Commonly performed overhaul procedures and their purpose
- E. Characteristics and functions of fire service salvage equipment
- F. Procedures for detecting hidden fires
- G. Principles and procedures for using an infrared scanner
- H. Procedures for extinguishing hidden fires
- L Providing protection during chimney fires
- J. Inspection and maintenance of fire service salvage covers
- K. Procedures for making buildings and areas safe after an emergency
- L Arranging building contents for covering
- M. Using salvage covers to cover shelves
- N. Protecting floors and walls using salvage covers
- O. Procedures for constructing a smoke curtain
- P. How to
  - 1. Roll a salvage cover for a one-person throw
  - 2. Fold a salvage cover for a one-person throw
  - 3. Perform the accordion foid
  - 4. Spread a rolled salvage cover
  - 5. Spread a folded salvage cover
  - 6. Spread an accordion folded salvage cover
  - 7. Spread a salvage cover with a balloon throw, two person method
  - 8. Spread a salvage cover using the single-edge snap throw, two person method
  - 9. Spread an accordion folded salvage cover using the two-person counter payoff method
  - 10. Remove a salvage cover
  - 11. Splice salvage covers, two-person method
- Q. Principles and procedures for using and constructing water chutes and dikes
  - 1. How to make a water chute with pike poles, two-person method
  - 2. Using hoselines to move, contain, or divert water
  - 3. considerations for constructing a stairway drain
  - 4. How to make a stairway drain
  - 5. Using building drains and scuppers
  - 6. Characteristics and functions of catchalls, catch basins, sumps, and dikes
  - 7. How to make a catchall, two-person method
  - 8. How to make a catch basin
  - 9. How to make a sump
  - 10. How to make a dike
  - 11. Characteristics and functions of water removal devices
  - 12. How to use a squeegee
  - 13. Characteristics and functions of industrial water vacuums
  - 14. How to use a carryall to remove debris
  - 15. Principles and procedures for restoring premises
  - 16. Principles and procedures for covering roof openings

# IV. Fire protection water systems

- A. Principal features of water systems
- B. Factors affecting fire hydrant usability
- C. Sources of water supply other than hydrants
- D. Characteristics of portable water tanks
- E. How to use a public water system's hydrant gate valve
- F. How to open and close a fire hydrant valve
- G. NFPA hydrant color-coding system
- H. Characteristics of wet and dry-barrel hydrants
- L Inspection and maintenance of fire hydrants
- J. How to connect a hard suction hoseline for drafting

# V. Fire protection systems

- A. Components of an automatic sprinkler system
- B. Capabilities and limitations of sprinkler systems
- C. Characteristics and functions of

- 1. Wet-pipe sprinkler systems
- 2. Dry-pipe and pre-action sprinkler systems
- 3. Deluge sprinkler systems
- 4. Residential sprinkler systems
- 5. Standpipe systems
- D. Fire service support activities and safety measures for fire protection systems
- F. How to
  - 1. Replace an automatic sprinkler system head
  - 2. Operate a sprinkler system's control valves
  - 3. Connect a hoseline to support wet and dry standpipes
  - 4. Connect a hoseline to support a sprinkler system
- F. Automatic systems
  - 1. Principles of automatic dry chemical systems
  - 2. Principles of automatic wet chemical systems
  - 3. Principles of Halon systems
  - 4. Characteristics and functions of clean agent and Halon replacement systems
  - 5. Characteristics and functions of automatic foam systems
  - 6. Characteristics and functions of automatic carbon dioxide systems
  - 7. Characteristics and functions of ultra high-speed explosion detection systems
  - 8. characteristics and functions of water mist systems
  - 9. Characteristics and functions of automatic alarm initiating devices
  - 10. Installation practices for residential smoke detectors

# VI. Fire prevention and investigation

- A. Basic techniques for public education
- B. Role of the first responder in fire investigations

# VII. Communications

- A. Fire department emergency communications systems
- B. Characteristics and functions of a fire department radio
- C. How to operate a fire department radio
- D. Clear radio text and common terminology
- E. Methods of receiving fire alarms
- F. Telephone and communication procedures
- G. Characteristics and functions of traffic pre-emption devices

# VIII. Vehicle Extrication

- A. Introduction to the principles of vehicle extrication
- B. Vehicle anatomy
- C. New vehicle safety systems
- D. Vehicle accident size-up
- E. Principles of victim disentaglement
- F. How to stabilize
  - 1. A vehicle one its wheels
  - 2. A vehicle on its side
  - 3. A vehicle on its roof
- G. How to remove
  - 1. an adhesive mounted vehicle windshield, two-person method
  - 2. a channel mounted vehicle windshield, two-person method
- H. How to open a vehicle roof using an air chisel
- 1. Characteristics and functions of light rescue hand tools
- J. How to displace
  - 1. Vehicle seats using a come-along and chains
  - 2. A steering wheel/column using a come-along
- K. How to open a vehicle door using panel cutters and a pry bar
- L. Characteristics and function of hydraulic rescue tools
- M. Inspection and maintenance of hydraulic rescue tools
- N. How to remove a vehicle roof using powered hydraulic shears
- O. How to displace a vehicle
  - 1. Seat using a hydraulic jack and ram extension
  - 2. Seat using a powered hydraulic tool
  - 3. Front door using a powered hydraulic tool
- P. How to displace a steering wheel/column using a powered hydraulic tool and chains
- Q. Characteristics and functions of air bags as a rescue tool
- R. Considerations for preparing, packaging, and removing a victim from a vehicle

# IX. Wildland fire fighting

- A. Wildland fire behavior
- B. Fire weather
- C. Wildland fire fighter preparedness and personal protective equipment
  - 1. Wildland fire fighting safety
  - 2. Lookouts, communications, escape routes, and safety zones (LCES)
  - 3. Safety considerations when working around dozers
  - 4. Safety considerations when working near aircraft
  - 5. Characteristics and functions of fire shelters
    - a. how to deploy a fire shelter, standing method
    - b. how to deploy a fire shelter, lying-down method
- D. Parts of a wildland fire
- E. Wildland fire strategy
- F. Handline construction
  - 1. Characteristics and functions of wildland hand tools
  - 2. Inspection and maintenance of wildland hand tools
  - 3. Characteristics and functions of back pumps
  - 4. Characteristics and functions of fusees as a firing tool
  - 5. Characteristics and functions of a drip torch
  - 6. How to use a drip torch
  - 7. Characteristics and functions of wildland hose lays
- G. Using water on wildland fires
- H. How to construct progressive hose lays
- I. Characteristics and functions of mobile attack operations
- J. How to perform a mobile attack
- K. Characteristics and functions of mop-up and patrol
- L. Methods for scouting and communicating spot fires
- M. Using a wildland map
- N. Using a wildland compass
- O. Introduction to incident base
- P. Working with wildland fire resources
- Q. Introduction to 1-zone
  - 1. I-zone safety considerations
  - 2. I-zone structure protection procedures

# X. Introduction to the Incident Command System

- A. National Inter-Agency Incident Management Systems
- B. National Inter-Agency Fire Qualification Systems
- C. Incident Command Systems
- D. Components of Incident Command Systems
  - 1. Common Terminology
  - 2. Modular Organization
  - 3. Integrated Communications
  - 4. Unified Command Structure
  - 5. Consolidated Action Pian
  - 6. Manageable span-of-Control
  - 7. Predesignated Incident Facilities
  - 8. Comprehensive Resource Management
- E. Organization and Operations
  - 1. Command
  - 2. Organization of Incident Tactical Operations
  - 3. Operations Section
  - 4. Planning Section
  - 5. Logistics Section
- 6. Finance Section
- F. Complex Incidents
  - 1. Extending the Incident Command System Organization
  - 2. Dividing an Incident
  - 3. Final Considerations
- G. Principals and Features of ICS
  - Five Primary Functions
     Management
    - a. Management by Objectives
    - b. Unity and Chain of Command

- c. Transfer of Command
- d. Organizational Flexibility
- e. Unified Command
- f. Span of Control
- 3. Common Terminology
- 4. Personnel Accountability
- 5. Integrated Communications
- 6. Resources Management
- 7. Incident Action Plan
- H. Organizational Overview
  - 1. Terminology
  - 2. Organizational Structure
  - 3. How the Organization Expands and/or Contracts
    - a. How the Organization Initially Develops at an Incident
    - b. Transfer of Command
- I. Incident Facilities
  - 1. Command Post
  - 2. Staging Area
  - 3. Base
  - 4. Camps
  - 5. Helibase
  - 6. Helispots
- J. Incident Resources
  - 1. Resources Often Used
  - 2. Why Resource Status Keeping is Important to Effective Incident Operations
  - 3. Types of Resources for Various Applications
  - 4. Three Ways of Using Resources on an Incident
  - 5. Resources Status Conditions
  - 6. Changing and Maintaining status on Resources
- K. Common Responsibilities Associated with ICS Assignments
  - 1. Prior to Leaving for Assignment
  - 2. At Incident Check-In
  - 3. While Working on the Incident
- L. During Demobilization
  - 1. Organization and Staffing
  - 2. Responsibilities of organizational elements in each section of the ICS
  - 3. General duties of each organizational elements
    - a. Terminology
    - b. Staffing considerations
    - c. reporting relationships
- M. Organizing for Incidents or Events
  - 1. Manner in which incidents and events are organized to ensure achieving objectives
  - 2. Steps in organizational development
  - 3. Incident briefing
  - 4. Reporting information and forms
- N. Resource management process at an incident
  - 1. Resource management
  - 2. Responsibilities related to resource ordering
  - 3. Use of Operational Planning Worksheet
  - 4. Importance of Staging Areas
  - 5. Demobilization of Resources
  - Cost-effective resource management
- O. Air Operations Branch
  - 1. Description
  - 2. How to Set Up Effective Aviation Organization
  - 3. Incident and Event Planning
  - 4. Planning Process
  - 5. Development of Incident Objectives, Strategies and Tactics
  - 6. Use of Operational Periods
  - 7. Planning Meetings
  - 8. Major Steps and Personnel Involved in Planning
  - 9. Support Plans
    - a. Communications
    - b. Medical
    - c. Traffic

# d. Incident Action Plan Forms

# XI. Confined space entry and rescue operations

- A. Compliance with California regulations
- B. Compliance with federal regulations
- C. Confined space hazards
  - 1. Oxygen-deficient atmosphere
  - 2. Toxic and/or hazardous vapors
- D. Atmospheric monitoring
  - 1. Sample atmosphere
  - 2. Confirmed it as tenable
  - 3. Identify hazards
  - 4. Air blower and flexible duct
  - 5. Individual monitors
- E. Hazard control
- F. Personal protective equipment
  - 1. Protective clothing
    - a. For known hazards
    - b. For possible hazards
  - 2. Lifelines for each member
  - 3. Radio
  - 4. Fully equipped and dressed out backup crew
- G. Confined space rescue
  - 1. Size Up (assessing the incident)
  - 2. Identify on-scene or available experts
  - 3. Stabilize entrapping machinery
  - 4. Access the patient
  - 5. Disentangle the patient
  - 6. Remove the patient
- H. Rescue equipment, knots and systems

# XII. Hazardous materials

- A. Introduction to hazardous materials
- B. Hazardous materials recognition and safety
  - 1. Compounds
  - 2. Physical and chemical change
  - 3. Exothermic and endothermic reactions
  - 4. Basic gas law
  - 5. Explosives
  - 6. Gases
  - 7. Flammable liquids
  - 8. Flammable solids
  - 9. Oxidizers and organic peroxides
  - 10. Poisons
  - 11. Pesticides and carcinogens
  - 12. Radioactives
  - 13. Corrosives
- C. Safety, isolation and notifications
- D. Command introduction to scene management
- E. IDHA and action plans
- F. Protective equipment and first responder limitations
- G. Respiratory protection fundamentals
- H. Contamination protection
- I. Containment
- J. Decon; disposal and documentation
- K. Agency coordination
- L. Pre-event and event specific planning
- M. Toxicology
- N. Safe and competent haz mat response

# XIII. Wildland fire urban interface

- A. Assessment introduction
  - 1. Pre-incident size-up (assessment)
  - 2. At the scene size-up
  - 3. Size-up report

- 4. Resource size-up
- B. Initial strategy and action plan
  - 1. Action plan development
  - 2. Resource needs
  - 3. Briefing and deployment
  - 4. Unified command
- C. Structure triage
  - 1. Decision process
  - 2. Five factors that affect your triage decision
  - 3. Consider all the factors
  - 4. When it is hopeless
  - 5. Closing comment
- D. Tactics
  - 1. Initial operations
  - 2. Structure and site preparations
  - 3. Engine operations
  - 4. Hand crews
  - 5. Firing operations
  - 6. Aircraft operations
  - 7. Heavy equipment operations
  - 8. Review unit objectives
- E. Action plan assessment
  - 1. Assessing action plan effectiveness
  - 2. Updating the action plan
  - 3. Safety
- F. Public relations and follow-up
  - 1. Follow-up
  - 2. Public relations
  - 3. Post incident management
  - 4. Agency policies
  - 5. Mutual aid situations
- G. Safety
  - 1. General safety considerations
  - 2. Interface safety considerations

# XIV. Medical Care

- A. CPR
- B. Vital Signs, Diagnostics,
- C. Anatomy and Physiology
- D. Airway Management
- E. Patient Assessment
- F. Patient Movement
- G. Scene Size-up
- H. Medical Emergencies
- 1. Trauma Emergencies
- J. Child and Elder Assessment
- K. Muscular/Skeletal Emergencies
- L. Splinting
- M. Pharmocology
- N. Respiratory
- O. Cardiac Emergencies
- P. Diabetic Emergencies
- Q. Environmental Emergencies
- R. Allergies, Poisonings, Overdose
- S. Behavioral Emergencies
- T. Bleeding and Shock
- U. Soft Tissue Injuries
- V. Obstetric Emergencies and Childbirth, S.I.D.S
- W. Bloodborne Pathogens
- X. MCI, Triage

# Lab Outline

1. Ventilation practices

Fire Control Operations
Salvage and overhaul
Fire Protection Systems
Investigation practices
Vehicle Extrication
Wildland Operations
Confined Space Rescue operations
Hazardous Materials operations
Medical care practices

# **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- face-to-face lab and online lecture and activities - hybrid

Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- · discussion board activities
- quiz activities
- content via Google Slide / PowerPoint presentations
- supplemental instructional video, such as YouTube, TedTalks, and PBS

Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- work with the College Instructional Designer
- · work with the College ADA specialist
- work with the local POCR Team
- receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- weekly lectures
- discussion opportunities between students weekly
- · student-to-student activities such as group work
- · regular assessment: both formative and summative
- · regular feedback weekly
- · re-teaching opportunities

Specify "Other" for Response #3 here: No Value Specify "Other" for Response #4 here: No Value Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu - select all that apply) · pre-class 'Welcome Letter' · weekly lectures · weekly announcement using the LMS (Canvas) online orientation – non-mandatory · timely feedback within the LMS (Canvas) - within 72-hours of the due date gradebook alerts – weekly · midterm and end-of-course surveys · College email - respond within 24-hours M-F LMS (Canvas) email – respond within 24-hours M-F office phone – respond within 24-hours M-F periodic online review/study sessions – non-mandatory · periodic online workshops - non-mandatory Specify "Other" here: No Value Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu - select all that apply) weekly discussion boards - robust posts and replies - group work, peer review, small group discussion boards, other (specify in comment box) · LMC (Canvas) email Specify "Other" here: No Value Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu - select all that apply) . The instructor has conducted a self-assessment of the CVC-OEI Rubric. The instructor's course has been 'Badged' by the CVC-OEI Design Academy. The instructor will be using a 'Blueprint' course created by Merced College. Specify "Other" here: No Value Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets

regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down

menu	- selec	t all	that a	dage	/
menu	- selec	. Carr	triat i		,,

- · Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in comment box)

Specify "Other" here:

Not completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

- other (specify in the comment box)

# Specify "Other" here:

Not recommended but can be hybrid in an 'emergency'

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

- Yes

# Exhibit E



# Merced College Course Outline of Record Report 06/28/2022

# FIRE65C: Wildland Firefighting Strategy & Tactics

General Information	
Author.	Bryan Donnelly
Course Code (CB01) :	FIRE65C
Course Title (CB02):	Wildland Firefighting Strategy & Tactics
Cohort:	Fire Technology
Proposal Start:	2020U
TOP Code (CB03):	(2133.10) Wildland Fire Technology
CIP Code:	(43.0206) Wildland/Forest Firefighting and Investigation
SAM Code (CB09):	Clearly Occupational
Distance Education Approved:No	
Course Control Number (CB00) :CCC00036200	01
Curriculum Committee Approval Date:09/05/2	2019
Board of Trustees Approval Date:10/08/2019	
External Review Approval Date:Pending	
Course Description:	This course stresses the fundamentals of initial-attack wildland firefighting and how to apply wildland firefighting strategy and tactics during the suppression effort which also includes live fire control. Must have instructor approved fire protective gear.
Submission Rationale:	Mandatory Revision
	6 yr. CTE review
Author:	No value

Master Discipline Preferred: • Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

Preferred:

# Course Development Options

Basic Skill Status (CB08)

Course Special Class Status (CB13)

Course is not a basic skills course.

Course is not a special class.

Allow students to gain Credit for Prior

Learning (CPL)

**Allowed Number of Retakes** 

0

# **Grade Options**

- Letter Grade Methods

Course Prior To College Level (CB21)

No value

Credit for methods a	Prior Learning assessme	nt	Retake Policy Descrip	otion		
No value	ccepied		No value		Allow Students To Audi	t Course
NO value						
Course Su	oport Course Status (CB	26)				1
No value	sport course status (co.	20)				,
140 Value						
Associa	ated Programs					
that the first control of the first section in		PCM 18 203 W	PF 2 10 10 10 10 10	n in dente of the grant of a spage see	per haddeler or a version or or or or or or	A S of 2 A - Mills by the Adaptive stacks concern sur-
Course	is part of a program (CB	24)				
Associated	Program		Award Type		Active	
No value			No value			
/ / -						
Transfo	rability & Gon E	Ontions				
ITaliste	rability & Gen. Ed	. Options				- 1
						:
Course Status	General Education (CB25)	n				
No value						
Transfe	erability (CB05)			Transferability	Status	,
				Not transferable		
Not transfer	able	8.0 41.0	4 0 57			
Units an	d Hours		,			
the state of the same	all disconnections and a graph	* * / *	ement t		Place A city and a second of the second of t	
Summar	у					
Minimum C	redit Units (CB07)1					en verweitig de mei en
Maximum (	credit Units (CB06)1					ARRADA
Tatal Cause	e In-Class (Contact)	18				\$ 4 8
Hours	e in-class (contact)	10				:
Total Course	e Out-of-Class	36				
Hours						Tite one
Total Stude	nt Learning Hours54					
Faculty Load	4	0				
Credit / N	Non-Credit Option	ns				A AMERICAN
	it Status (CB04)		ourse Non Credit Ca	ategory (CR22)	Non-Credit Characteristic	* * * * * * * * * * * * * * * * * * * *
	ee Applicable		redit Course.	regory (CB22)	Non-Credit Characteristic  No Value	g u sa a malana
a. a.a. begi	- Albertagene		Course.		NO Value	3
						T. SEPPENDE
Course Class	ification Code (CB11)	F	unding Agency Cate	gory (CB23)	Cooperative Work Evpe	ings Education

Credit Course.		Not Applicable.		Status (CB10)	
Variable Credit Cou	erse				
Weekly Student	Hours		Course Studen	nt Hours	
	In Class	Out of Class	Course Duration	(Weeks) 18	
Lecture Hours	1	2	Hours per unit di	visor54	
Laboratory Hours	0	0	Course in-Class (C	Contact) Hours	
<b>Activity Hours</b>	0	0	Lecture	18	
			Laboratory	0	
			Activity	0	
			Total	18	
			Course Out-of-Cla	ass Hours	
			Lecture		
				36	
			Laboratory	0	
			Activity	0	
			Total	. 36	
Faculty Load			Faculty Load: 0		
					•
Units and Hours	- Weekly Spe	cialty Hours			
0		Tues	In Class	Out of Class	
Activity Name		Туре	In Class	Out of class	
No Value		No Value	No Value	No Value	
Pre-requisites, C	o-requisites,	Anti-requisites and A	Advisories		
and the second second	saas something a local	Anna in Maria managamanananana		tudhumbar di gi pi fi bira	transfer for the first section of the section of th
Advisory					
ENGL85A - Found	dations in Acad	emic Litera			
- A. Use the	reading process, at	the pre-transfer level, to acce	ss a variety of texts.		

A1. Make connections between course readings and prior knowledge.
A2. Utilize inferencing when scanning texts to draw conclusions.

- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.

**Outcomes** 

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- · Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Prerequisite

# FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter for a certified fire protection department. Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

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# Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

	Fatana Chille	-	
	Entrance Skills		ero welcome tell it had a man
2 0			
	Entrance Skills	Description	
		•	
	No value	No value	
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	Limitations on Enrollment		nameterani
	Marketon on Familian	Description	
,	Limitations on Enrollment	Description	
ŀ			
	No value	No value	
-		a series dans to an experience of the series	113 F 888 996 - 175 F F 8 8 86 - 4 AC + 7
	Specifications		
	Specifications		***
	Methods of Instruction		
5		,	
	Methods of Instruction	Lecture	
	Rationale	No value	
			1
	Methods of Instruction	Other	

Rationale Other - Problem Solving Methods of Instruction Other Rationale Other - In class individual, small and large group activities Methods of Instruction Other Other - Demonstration of containment and extinguishment techniques Rationale Other Methods of Instruction Rationale Other - Student demonstration activities Methods of Instruction Other Other - Video Rationale **Assignments** READING 1. Text WRITING 1. Complete student information sheets 2. Complete student notebooks OUTSIDE 1. Read, review and study text and handouts 2. Practice manipulative skills CRITICAL THINKING 1. Through class participation, In given scenarios the student will analyze and evaluate required fire strategies. 2. Through demonstration, the student will explain a positive plan of action in order to demonstrate the required skills for wildland firefighting **Methods of Evaluation** Rationale Other Other - Live Fire Simulations Exams/Tests No value Equipment

No Value

Textbooks				
Author	Title	Publisher	Date	ISBN
California State Fire Marshal	California State Fire Marshal Student Manual	California State Fire Marshal	2012	none
Other Instructional Materials				
Other instructional waterials				
Description	Must have instructor	approved fire protective gea		
Author	Wast flave first actor	approved me protective ger		
Citation	Wildland Firefighting	Strategy & Tactics		
Materials Fee				
No value				000 mm at P 44 Mm
				N a Magazinos y y si
Learning Outcomes ar	nd Objectives		•	
some soft-material six, see little from the first soft of the six	MR ETP to the hard Miller Experience per pit to 27	* 0 15 00 15 0 5		de la steriore pr in to
Course Objectives				
A. Meet the State Fire Marshal re SLO's.	quirements for certification in Wildland F	irefighting and performing a	s a Wildland firefig	hter. This objective covers all
3LO 3.				
			•	
CSLOs				
Distinguish the salient features i	n basic wildland firefighting principles.			Expected SLO Performance: 70.0
ISLOs Cognition - U	se critical thinking skills to analyze, synthesize	e and evaluate ideas and inform	ation	
Core ISLOs	are driver a mining only to array a your cons			
NAMES OF SETTINGS	Tanaman ng mangang a sana rang 10 tig 10 ng salabilis 10 tib 10 ng 1	gram in 1985 to 5 to 6 (Martino III) - Ign and another-in	e en	a dimension in impairment in such data. We so sell their follows: ————————————————————————————————————
Inventory the hazards to safety of	during wildland firefighting suppression	i.	_	Expected SLO Performance: 70.0
_	se critical thinking skills to analyze, synthesize	e and evaluate ideas and inform	ation	
Core ISLOs				
Demonstrate "size-up" and "repe	ort on conditions "			Expected SLO Performance: 70.0
Demonstrate size-up and rep				
ISLOs Cognition - Us Core ISLOs	se critical thinking skills to analyze, synthesize	and evaluate ideas and inform	ation	
Core is to				
Determine emergency situation	parameters and appropriate strategy du	ring the mitigation effort.		Expected SLO Performance: 70.0
ISLOs Cognition - Us	se critical thinking skills to analyze, synthesize	and evaluate ideas and inform	ation	
Core ISLOs	se critical tritiking skills to dildlyze, syff(fiesize	. one evolutie ruess and inform	SUUII	

# Outline

# **Course Outline**

# L Introduction: Fundamentals of Wildland Fire Control

- A. Wildland fire terminology
- B. Part of a fire
- C. Principles of fire suppression
  - 1. Basic combustion process
  - 2. Methods of heat transfer
  - 3. Fire triangle
  - 4. Breaking the fire triangle
- D. Firefighter Safety
  - 1. Donning fire protective
  - 2. Uses of protective gear
  - 3. Basic firefighter safety rules

# II. Overview of Incident Command System

- A. Components of Incident Command Systems
  - 1, Common terminology
  - 2. Modular organization
  - 3. Integrated communications
  - 4. Unified command structure
  - 5. Consolidated action plan
  - 6. Manageable span-of-control
  - 7. Predesignated incident facilities
  - 8. Comprehensive resource management
- **B.** Organization and Operations
  - 1. Command
  - 2. Organization of incident tactical operations
  - 3. Operations section
  - 4. Planning section
  - 5. Logistics section
  - 6. Finance section

# III. Command

- A. Chain of command
- B. Span of control
- C. Unity of command

# v. Size-Up / Report on Conditions

- A. Size-up/report simulations
- B. Plan development
  - 1. Incident Command System Action Plan
  - 2. Incident Command System Forms

# v. Extinguishment methods

- A. Use of water
- B. Fine line construction
- C. Tactical use of fire
- D. Fire control resources
  - Air program
     Camp Program
  - a. Engines
    - a. Engines
    - b. Hand crews
    - c. Heavy equipment i.e, dozers

# vi. Communications

- A. Alternative Methods
- B. Topographical Issues

# VII. Strategy and Tactics

A. Fire management principles

- 1. Objectives
- 2. Strategy
- 3. Tactics
- B. Size up
- C. Report on conditions
- D. Tactical methods
  - 1. Direct attack
  - 2. Parallel attack
  - 3. Indirect attack
  - 4. Other suppression techniques a. Hot spotting
    - b. Cold trailing
    - c. Mop-up

# Exhibit F



# Merced College Course Outline of Record Report 06/28/2022

# FIRE65E: Introduction to Hazardous Materials Awareness

General Information	or him one is to the description data with the seminated final ser-	Makes in the consistent of the part of the control		
Author:	Bryan Donnelly			
Course Code (CB01) :	FIRE65E			
Course Title (CB02):	Introduction to Hazardous Materials Awarenes	ss		
Cohort:	Fire Technology			
Proposal Start:	2020U			
TOP Code (CB03):	(2133.00) Fire Technology			
CIP Code:	(43.0201) Fire Prevention and Safety Technology/Technician			
SAM Code (CB09):	Clearly Occupational			
Distance Education Approved:No				
Course Control Number (CB00) :No value				
Curriculum Committee Approval Date:09/05/20	19			
Board of Trustees Approval Date:10/08/2019				
External Review Approval Date:Pending				
Course Description:	This course is a general introduction to hazardous materials awareness with emphasis on placards, identification and recognition, decision-making in emergencies, detecting hazardous materials presence, and estimating the likely harm without intervention.			
Submission Rationale:	Mandatory Revision			
	6 yr. CTE review			
Author:	No value			
=   1				
Faculty Requirements				
Master Discipline Preferred:	Fire Technology			
Alternate Master Discipline Preferred:No value				
Bachelors or Associates Discipline Preferred:No	value			
Additional Bachelors or Associates Discipline Preferred:	No value			
- 0 1				
Course Development Options		<u>.</u> .		
Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options		
Course is not a basic skills course.	Course is not a special class.			
		<ul> <li>Letter Grade Methods</li> <li>Pass/No Pass</li> </ul>		
Allow students to gain Credit for Prior	Allowed Number of Retakes	Course Prior To College Level (CB21)		

Learning (CPL)		0	No value
Credit for Prior Learning assessment methods accepted		Retake Policy Description  No value	Allow Students To Audit Course
Course Support Course Status (CB2	26)		
No value			•
Associated Programs			
Course is part of a program (CB.			
Associated Program		Award Type	Active
No value		No value	
Transferability & Gen. Ed	-		
me time minute at the first seeds the time of managements and the seeds in the first time.		AN THE STR. NO. 1 ST. 1000 NO. 10. 10. 10. 10.	
Course General Education Status (CB25)	on		
No value		Transferabili	ity Status
Transferability (CB05)			
Not transferable		Not transferable	
Units and Hours	•		
Summary			
Minimum Credit Units (CB07)0.5			
Maximum Credit Units (CB06)0.5			
Total Course In-Class (Contact) Hours	9		
Total Course Out-of-Class Hours	18		
Total Student Learning Hours27			
Total Student Learning Hours27	0		
Faculty Load	ns	Course Non Credit Category (CB22)	Non-Credit Characteristic

Course Classification Code (CB11)		Funding Agency Category (CB23) . Cooperative Work Exp		Cooperative Work Experience Education
Credit Course.		No value		Status (CB10)
☐ Variable Credit Cou	irse			
Weekly Student	Hours		Course Student	Hours
	In Class	Out of Class	Course Duration (W	eeks)18
Lecture Hours	0.5	1	Hours per unit divis	or54
Laboratory Hours	0	0	Course In-Class (Contact) Hours	
Activity Hours	0	0	Lecture	9
			Laboratory	0
			Activity	0
			Total	9
			Course Out-of-Class	Hours
			Lecture	18
			Laboratory	0
			Activity	0
			Total	18
Faculty Load				
Extra Duties: 0			Faculty Load: 0	
	-1 -1 -11	. — Marke		and the second s
Units and Hours	- Weekly Spe	ecialty Hours		
Activity Name		Туре	In Class	Out of Class
No Value		No Value	No Value	No Value
Pre-requisites, C	Co-requisites,	Anti-requisites and	Advisories	
Advisory				
ENGL85A - Foun	dations in Acad	lemic Litera		

A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.

A. Use the reading process, at the pre-transfer level, to access a variety of texts.
A1. Make connections between course readings and prior knowledge.

 C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

# **Outcomes**

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Prerequisite

# FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter fora certified fire protection department. Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# AND

# Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

Entrance Skills	
Entrance Skills	Description
No value	No value:
Limitations on Enrollment	re distance of the second of t
Limitations on Enrollment	Description
No value	No value
Specifications	
Methods of Instruction	
Methods of Instruction	Lecture
Rationale	No value

Methods of Instruction

Rationale

Other - Problem Solving

Methods of Instruction

Other

Rationale

Other - Videos and slides

# Assignments

# READING

- 1. Handouts
- 2. Text

# WRITING

1. Complete class handout material

# OUTSIDE

- 1. Read, review and study text and handouts
- 2. Read and complete handout materials

# CRITICAL THINKING

- 1. The student will demonstrate the ability to detect the presence of hazardous materials
- 2. The student will demonstrate the proper steps in decision-making when presented with a scenario regarding hazardous materials.

Methods of Evaluation	Rationale
Class Participation	No value
Other	Other - Class assignments
Other	Other - Group activities
Other	Other - Class assignments

# Equipment

No Value

# **Textbooks**

Author	Title	Publisher	Date	ISBN
				•
IFSTA	Hazardous Materials For First Responders	IFSTA	2017	978-0-87939-613-8

# Other Instructional Materials

Description	Instructor prepared hand out materials
Author	
Citation	Introduction to Hazardous Materials Awareness
Description	State Fire Marshal defined materials if state certification is given.
Author	

Citation Introduction to Hazardous Materials Awareness Description Current Federal Department of Transportation Emergency Response Guidebook (ERG) Author Citation Introduction to Hazardous Materials Awareness Description Student should be able to access the most current Department of Transportation Emergency Response Guidebook (DOT ERG) Author No value No value Citation **Materials Fee** No value Learning Outcomes and Objectives **Course Objectives** A. Meet the required standards for certification according to the California State Fire Marshal guidelines. This covers all SLO's. **CSLOs** Expected SLO Performance: 70.0 Formulate a general awareness of hazardous materials. Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Expected SLO Performance: 70.0 Construct a basic understanding of the effects of an exposure to hazardous materials. ISLOS Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Expected SLO Performance: 70.0 Categorize the nine D.O.T. Hazard Classification Symbols and thier associated hazards. ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose. Computation - Use mathematical skills and various aspects of technology appropriate to the task Expected SLO Performance: 70.0 Inventory the steps in detecting the presence of hazardous materials. ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs

# Outline

# Course Outline

# I. Hazardous Materials, and Overview of the Problem

- A. Definition of hazardous materials
- B. Hazardous materials categories and classification
- C. Hazardous materials location
- D. Hazardous materials incidents

# II. Decision-making in Emergencies

- A. D.E.C.I.D.E. process steps
- B. Analysis processes

# III. Detecting Hazardous Materials Presence

- A. Clues for detecting hazardous materials presence
- B. Practical exercise and discussion
- C. Recognition

# IV. Estimating Likely Harm without Intervention

- A. Concept of events analysis
- B. Events analysis
- C. Likely outcome in emergencies

# V. Identifying Hazardous Materials

- A. Identification of specific name of material
- B. Sources for identifying characteristics and behavior

# VI. Arriving First on Scene

- A. D.O.T. guidebook
- B. Visualizing hazardous materials behavior

# Exhibit G



# Merced College Course Outline of Record Report

# FIRE65F: Hazardous Materials - First Responder Operations (H M F.R.O.)

	General Information	e with a significant was too to	TO THE SECOND OF THE PROPERTY AND THE SECOND	
	Author:	Bryan Donnelly		
	Course Code (CB01) :	FIRE65F		
	Course Title (CB02) :	Hazardous Materials - First Responder Operati	ions (H M F.R.O.)	
	Cohort:	Fire Technology		
	Proposal Start:	2020U		
	TOP Code (CB03):	(2133.00) Fire Technology		
	CIP Code:	(43.0201) Fire Prevention and Safety Technolog	gy/Technician	
	SAM Code (CB09) :	Clearly Occupational		
	Distance Education Approved:No			
	Course Control Number (CB00) :CCC000351575			
í	Curriculum Committee Approval Date:09/05/201	9		
	Board of Trustees Approval Date:10/08/2019		×	
	External Review Approval Date:Pending			
a sales	Course Description:		on harm people, the environment and property and gnize a hazardous materials incident and implement	
	Submission Rationale:	Mandatory Revision		
		6 yr. CTE review		
	Author:	No value		
	AND AND THE RESIDENCE AND		100 1 10000 1 10000	
	Faculty Requirements	No division with the second	to the second to	
	Master Discipline Preferred:	• Fire Technology		
	Alternate Master Discipline Preferred:No value			
	Bachelors or Associates Discipline Preferred:No v	alue		
	Additional Bachelors or Associates Discipline Preferred:	No value		
	The second section of the second section of the second section	an a	The same of the second	
	Course Development Options			
	Basic Skill Status (CB08)	Course Special Class Status (CB13)		
			Grade Options	
	Course is not a basic skills course.	Course is not a special class.	<ul><li>Letter Grade Methods</li><li>Pass/No Pass</li></ul>	
	Allow students to gain Credit for Prior	Allowed Number of Retakes	Course Prior To College Level (CB21)	

	Learning (CPL)	0	No value
	Credit for Prior Learning assessment methods accepted	Retake Policy Description	
	No value	No value	Allow Students To Audit Course
	Course Support Course Status (CB26)		
	No value		
	Associated Programs		144 M
	Course is part of a program (CB24)		
	Associated Program	Award Type	Active
;	No value	No value	
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	Transferability & Gen. Ed. Option	<b>S</b>	
	Course General Education Status (CB25)		
	No value		
	Transferability (CB05)	Transferability	y Status
	Not transferable	Not transferable	
	The second of the second of the second		- 100 - 1 course or 1 1 1 4 4 5 5 5 5 5 5 5 5 5
	Units and Hours		
	Summary		
	Minimum Credit Units (CB07)1		
	Maximum Credit Units (CB06)1		
	Total Course In-Class (Contact) 20.7 Hours		
	Total Course Out-of-Class 41.4 Hours		i
	Total Student Learning Hours62.1		
	Faculty Load 0		
	Credit / Non-Credit Options		
	Course Credit Status (CB04)	Course Non Credit Category (CB22)	Non-Credit Characteristic
	Credit - Degree Applicable	Credit Course.	No Value

Course Classification (	Code (CB11)	Funding Agency C	ategory (CB23)	Cooperative Work Experience Education
Credit Course.		Not Applicable.		Status (CB10)
☐ Variable Credit Cou	rse			
Weekly Student	Hours		Course Stude	ent Hours
moonly oldardin	In Class	Out of Class	Course Duration	
Lecture Hours	1.15	2.3	Hours per unit	divisor54
Laboratory Hours	0	0		(Contact) Hours
Activity Hours	0	0	Lecture	20.7
			Laboratory	0
•			Activity	0
			Total	20.7
			Course Out-of-C	Class Hours
			Lecture	41.4
			Laboratory	41.4 0
			Activity	0
			Total	41.4
			, , , , ,	
Time Commitme No value	nt Notes for S	Students		
Faculty Load				
Extra Duties: 0			Faculty Load: 0	
and of a common of the little				
Units and Hours		cialty Hours		
	-	oranty mound		
Activity Name		Туре	. In Class	Out of Class
No Value		No Value	No Value	No Value
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Pre-requisites, C	o-requisites,	Anti-requisites and	Advisories	
Advisory				
ENGL85A - Found	dations in Acad	emic Litera		
		the pre-transfer level, to accomp course readings and prior l		

- A2. Utilize inferencing when scanning texts to draw conclusions.

A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.

 C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

# **Outcomes**

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Advisory

# FIRE30 - Fire Protection Organization

Or currently a paid call, seasonal, or full-time firefighter. Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# AND

# Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

	Entrance Skills		
1	Entrance Skills	Description	
	No value	No value	
	Limitations on Enrollment		
	Limitations on Enrollment	Description	
	No value	No value	
	Specifications		
	Methods of Instruction		
	Methods of Instruction	Lecture	
	Rationale	No value	

 Methods of Instruction
 Other

 Rationale
 Other - Films and/or videotapes

 Methods of Instruction
 Demonstration

 Rationale
 No value

 Methods of Instruction
 Other

 Rationale
 Other - Scenario exercises

# **Assignments**

# READING

1. Text

# WRITING

1. Incident reports relating to the class scenario exercises

# OUTSIDE

1. Textbook reading assignments

# CRITICAL THINKING

- 1. Given scenarios depicting a "haz mat" event the student will evaluate the incident and and type of event.
- 2. Given a scenario depicting a "haz mat" event the student will identify the operations and initial actions to be taken.
- 3. Given a scenario depicting a "haz mat" incident the student will plan methods to be used to communicate and coordinate with agencies from all levels of government.
- 4. Given a scenario depicting a "haz mat" event the student will plan a safe and competent response to the incident.

 Methods of Evaluation
 Rationale

 Other
 Other - Skill Tests

 Papers
 No value

 Class Participation
 No value

Equipment

No Value

**Textbooks** 

Author Title Publisher Date ISBN

California State Fire Marshal Student Manual: Hazardous California State Fire 01-01-2007
Materials First Responder Marshal

Operations

Other Instructional Materials

Descripti	ion	Current Federal Department of Transportation Hazardous Materials Emergency Response Guide
Author		
Citation		Hazardous Materials - First Responder Operations (H M F.R.O.)
Materia	ls Fee	
No value		
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l earni	ng Outcomes and Objectiv	es
Louin	ng outsomes and objects	•
_	011	
Cours	se Objectives	
A1. Meet	the requirements for certification as de	scribed by the California State Fire Marshals' office.
A. This ob	jective applies to all SLOs	
× .		
CSLO	s	
Analyze a	t least three typical outward warning s	signs of a hazmat release Expected SLO Performance: 70.0
raidiyae d	in today times typical section in the initial	<b>3</b>
ISLOs		skills to analyze, synthesize and evaluate ideas and information
Core ISLO	Js	
disposed		cations in a community where hazardous materials are manufactured, transported, stored, used, or Expected SLO Performance: 70.0
,		`.
AL D DANGER IN	A TOTAL OF A STATE AND A CONTROL OF A STATE	on a service of the control of the c
ISLOs		skills to analyze, synthesize and evaluate ideas and information
Core ISLO	)\$	
Inspect th	e components of a placard	Expected SLO Performance: 70.0
a con market select	Delta and a ser a service in Adda a service	AND A DESIGN WHEN THE PROPERTY OF THE PROPERTY
ISLOs	Cognition - Use critical thinking	skills to analyze, synthesize and evaluate ideas and information
Core ISLC		
	ž ne	
Identify th	ne basic elements of a "Mental Safe Ap	proach Tactic" and describe the meaning of the "Mental Safe Approach Tactic;"
		Expected SLO Performance: 70.0
ISLOs		analyze, synthesize and evaluate ideas and information
Core -		and various aspects of technology appropriate to the task
	Tamporation of magnetiation skills (	2/
30-10-0 c-3000 c 100		d Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and
	the important of community involvement	m.

Expected SI,O Performance: 70.0

6/28/2022, 8:27 AM

Relate the six ways Haz Mat events can harm/kill response personnel

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

# Outline

# Course Outline

# L Introduction to Haz Mat at the FRO level

# II. Hazardous Materials Recognition and Safety

- A. Importance of Recognizing Haz Mat Incidents
- B. Haz Mat Recognition Clues
- C. Haz Mat Outward Warning Signs
- D. Special Markings
- E. US DOT Placards and Labels
- F. Shipping Papers and MSDSs
- G. First Operational Thought
- H. Death and Injury Due to Lack of Safety Guides

# III. Safety, Isolation and Notifications

- A. Definition of "FRO" and "FRA"
- B. First Operational Thought
- C. Safe Approach and Assessment
- D. Initial Actions
- E. General Safety Precautions and Do's /Don'ts
- F. First Operational Priority
- G. Requirements for Notifications

# IV. Introduction to Incident Command

# N. Identification, Hazard Assessment and Action Planning

- A. Identification and Hazard Assessment
- **B. Material Safety Data Sheets**
- C. NA Emergency Response Guidebook
- D. CHEMTREC
- E. Components of Hazard Assessment
- F. Chemical Terms
- G. Variables/Modifying Conditions
- H. Behavior and Natural Stabilization
- I. Intelligence vs. Information
- J. Action Planning Required

# v. Protective Equipment and First Responder Limitations

- A. IDHA and Protective Equipment
- B. Routes of Entry for Human Exposure
- C. Typical Hazards On-Scene
- D. Protective Clothing Levels
- E. Criteria for Selecting Protective Clothing Level
- F. Need for Respirators and Breathing apparatus
- G. Environmental Monitoring and Sampling Devices
- H. Limits of Protective Equipment

# v. Haz Mat Release Countermeasures

- A. First Responder at the "Operations" Level
- B. All Haz Mat Events Eventually stabilize
- C. Three Strategies to Deal with a Release
- D. Containment Defined
- E. When and Why containment is Appropriate
- F. Methods of Containment
- G. Initial Containment Techniques

# VIL Protective Equipment and First Responder Limitations

- A. IDHA and Protective Equipment
- B. Routes of Entry for Human Exposure
- C. Typical Hazards On-Scene
- D. Protective Clothing Levels

- E. Criteria for Selecting Protective Clothing Level
- F. Need for Respirators and Breathing Apparatus
- G. Environmental Monitoring and Sampling Devices
- H. Limits of Protective Equipment

#### VIII. Protective Actions

- A. Protective Actions
- **B. Protective Actions considerations**
- C. Evacuation Issues
- D. Shelter in Place Issues

# IX. Agency coordination and Pre-Event Plans

- A. Typical First Responder Agencies
- B. Other Local Haz Mat Agencies
- C. Key State Haz Mat Agencies
- D. Key Federal Haz Mat Agencies
- E. Private Sector Haz Mat Resources
- F. Enhancing Agency coordination and Communications
- G. Know Local/Employer Haz Mat Plan
- H. Pre-Event vs. Event Specific Plans

#### X. Safe and competent Haz Mat Response

- A. The Need and Basics of a Process
- B. The "Acronym" Process
- C. The "Checklist" Process
- D. "Applying" the Process
- E. Your own "Mind Jogger" Process

#### XI. The Media and Haz Mat Legal Aspects

# Exhibit H



# Merced College Course Outline of Record Report 06/28/2022

# FIRE65G: First Responder Operations -- Decontamination (DECON FRO)

#### **General Information**

Author.

· Bryan Donnelly

Course Code (CB01):

FIRE65G

Course Title (CB02):

First Responder Operations -- Decontamination (DECON FRO)

Cohort:

Fire Technology

Proposal Start:

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000455117

Curriculum Committee Approval Date:09/05/2019

Board of Trustees Approval Date:10/08/2019 External Review Approval Date:Pending

Course Description:

This course covers how to safely and competently perform "Fully/Primary" decontamination in at least "Level B" personal protective equipment, based on agency or generic Decon SOP. This course builds upon FRO competencies, to perform Decontamination functions within the Contamination

Reduction Zone

Submission Rationale:

**Mandatory Revision** 

6 yr. CTE Review

Author:

No value

#### **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

**Course Development Options** 

Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options	
Course is not a basic skills course.	Course is not a special class.	Letter Grade Methods     Pass/No Pass	
Allow students to gain Credit for Prior Learning (CPL)	Allowed Number of Retakes	Course Prior To College Level (CB21)  No value	Totality a Citaminatanina
Credit for Prior Learning assessment methods accepted  No value	Retake Policy Description  No value	Allow Students To Audit Course	
Course Support Course Status (CB26) No value			
Associated Programs  Course is part of a program (CB24)			e se
Associated Program No value	Award Type No value	Active	Available 1.1
Transferability & Gen. Ed. Options			,
Course General Education Status (CB25) No value	,		
Transferability (CB05)  Not transferable	Transferability Status Not transferable		-
The statement Mark	inot transferable		ii.

# **Units and Hours**

Summary	S	u	m	m	a	rv	
---------	---	---	---	---	---	----	--

Minimum Credit Units (CB07)0.5

Maximum Credit Units (CB06)0.5

Total Course In-Class (Contact)

Hour

**Total Course Out-of-Class** 

Hours

27

**Total Student Learning Hours**36

**Faculty Load** 

0

Credit / Non-Cre	edit Options				
Course Credit Status (	CB04)	Course Non Credi	it Category (CB22)	Non-Credit Characteristi	c
Credit - Degree Applica	able	Credit Course.		No Value	
Course Classification C	Code (CB11)	Funding Agency (	Category (CB23)	Company Work Funds	aulana Eduardian
Credit Course.		Not Applicable.		Cooperative Work Exp Status (CB10)	enence Education
Variable Credit Cou	rse				
Weekly Student	Hours		Course Stude	ent Hours	
Weekly Student	In Class	Out of Class	Course Duration		
Lecture Hours	0.5	1.5	Hours per unit		
Laboratory Hours	0.5	0		(Contact) Hours	
	0	0	Lecture	9	
Activity Hours	Ū	Ü		0	
			Laboratory		
			Activity	0	
			Total	9	
			Course Out-of-	Class Hours	
			Lecture		
			Laboratory	27	
			Laboratory	0	
			Activity	0	
			Total	27	
			•		
Time Commitme	nt Notes for S	Students			
No value					
Faculty Land					
Faculty Load				· Aur.	
Extra Duties: 0			Faculty Load: 0		
Units and Hours	- Weekly Spe	cialty Hours		<u> </u>	
Activity Name		Туре	In Class	Out of Class	
No Value		No Value	No Value	No Value	
TO VALUE		. Talue		110 Value	
Pre-requisites, C	o-requisites,	Anti-requisites and	Advisories		

#### Advisory

#### FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter for acertified fire protection department. Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

#### AND

#### Advisory

FIRE65F - Hazardous Materials - First Responder Operations (H M F.R.O.)

#### **Objectives**

- A1. Meet the requirements for certification as described by the California State Fire Marshals' office.
- A. This objective applies to all SLOs

#### Outcomes

- Analyze at least three typical outward warning signs of a hazmat release
- Categorize typical occupancies, manners, and locations in a community where hazardous materials are manufactured, transported, stored, used, or disposed of;
- · Inspect the components of a placard
- Identify the basic elements of a "Mental Safe Approach Tactic" and describe the meaning of the "Mental Safe Approach Tactic;"
- Relate the six ways Haz Mat events can harm/kill response personnel

Entrance Skills	
Entrance Skills	Description
No value	No value
Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value
Specifications	
Methods of Instruction	
Methods of Instruction	Lecture
Dationale	Novelue

Methods of Instruction	Other
Rationale	Other - Films and/or videotapes
Methods of Instruction	Demonstration
Rationale	No value
Methods of Instruction	Other
Rationale	Other - Scenario exercises
Assignments	
READING	
1. Text	
WRITING	
Forms relating to the class scenarios, field excent	ercises, and state mandated reports.
OUTSIDE	
1. Textbook reading assignments CRITICAL THINKING	
	t to properly don and doff "Level B" personal protective equipment, and complete a practical exercise
	ative tasks while wearing "Level B" personal protective equipment, an describe proper medical
	nals before participating in the functional exercise;
2. Perform "Full/Primary" Decon, in "Level B" pe	rsonal protective equipment
Methods of Evaluation	Rationale
Other	Other - Skill Tests
Class Participation	No value
Exams/Tests	No value

Equipment No Value

Textbooks

Author Title Publisher Date ISBN

California Specialized Training
Institute
Student Manual: First Responder,
Operations, Decontamination
State of California,
Operations, Decontamination
Operations, Decontamination
Institute

Other Instructional Materials

No Value

Materials Fee	
No value	
Learning Outcomes and Objectives	
Learning Outcomes and Objectives	
Course Objectives	
A1. Meet the requirements for performing hazardous materials decontamination according to established California	State Fire Marshal guidelines.
	4
A. Applies to all SLOs.	
CSLOs	
Total Control of the December	Expected SLO Performance: 70.0
Examine the need for Decontamination training for First Responder, Operations level trained personnel (FROs).	Expected SEO Performance, 70.0
ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information	,
Core ISLOs	'
Canada aka kasi adadala af Basantania aka	Expected SLO Performance: 70.0
Categorize the basic principles of Decontamination.	Expected SEO Performance. 70.0
ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information	
Core ISLOs	
(1) and 100 miles (1) and 100	
Describe the protocols for performing "Full/Primary" Decontamination, consistent with FIRESCOPE ICS	Expected SLO Performance: 70.0
Describe the protocols for performing raily-rimary Decontamination, consistent with rivescore its	
ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information	
Core ISLOs	
THE STATE OF THE PROPERTY IS A SECOND OF THE PROPERTY OF THE P	ma an in also (II) where we a risk in the second of
The state of the s	
Outline	
THE CONTROL OF MAN WILL SELL IT IN THE CONTROL OF T	the state of the s
Course Outline	1
Course Outline	
I. Understanding the need for Decontamination training for FROs	
	,
II. Theoretical Principles of Decon	ı
A. Why and when Decon is performed     B. Who and what gets deconned	
C. Procedural guides that should follow a logical sequence to get from "Dirty" to "Clean"	1
D. Key methods of Decon	
E. Key types of Decon	
F. Factors that affect Decon process	
G. Differentiating between emergency and full/primary Decon	
III. Decon Protocols Overview	
A. Decon within the ICS organization	
B. Duties of Decon Team Leader	:
C. Minimum number of personnel to do Full/Primary Decon	

- E. Three key considerations in locating the "Contamination Reduction Corridor" (CRC)
- F. Stations and layout needed to set-up a CRC
- G. Basic equipment needed to set-up a CRC
- H. Basic procedures to set-up and perform Full/Primary Decon
- I. Three special considerations when performing Decon
- J. ICS form where Decon procedures listed
- H. Decon Demonstration and Practice
  - 1. Hands on safe operations
  - 2. Selection of safe site for a CRC
  - 3. Proper set-up of equipment for Full/Primary Decon
  - 4. Safe and effective management and performance
  - 5. Proper use of control zones, and maintaining proper PPE for any personnel in zones

# Exhibit I



# Merced College Course Outline of Record Report 06/28/2022

# FIRE66D: Equipment Operator for Volunteer Firefighters

#### **General Information**

Author.

Bryan Donnelly

Course Code (CB01):

FIRE66D

Course Title (CB02):

**Equipment Operator for Volunteer Firefighters** 

Cohort:

Fire Technology

Proposal Start:

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000382177

Curriculum Committee Approval Date:09/05/2019

Board of Trustees Approval Date:10/08/2019

External Review Approval Date:Pending

Course Description:

This course provides the firefighter with basic knowledge of radio communications use regarding size-up and report conditions. Forms and reports related to operating equipment and incidents are covered as well as emergency equipment placement, and strategy and tactics for structure, wildland and vehicle fires. Auto extrication and defensive driving and pump theory are included.

Submission Rationale:

Mandatory Revision

6 yr. CTE Review

Author

No value

#### **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred: No value

Additional Bachelors or Associates Discipline

No value

Course Development Options

Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options
Course is not a basic skills course.	Course is not a special class.	Letter Grade Methods     Pass/No Pass
Allow students to gain Credit for Prior Learning (CPL)	Allowed Number of Retakes	Course Prior To College Level (CB21)  No value
Credit for Prior Learning assessment methods accepted  No value	Retake Policy Description  No value	Allow Students To Audit Course
Course Support Course Status (CB26) No value		
Associated Programs	· · · · · · · · · · · · · · · · · · ·	
Course is part of a program (CB24)		
Associated Program No value	Award Type No value	Active
Transferability & Gen. Ed. Options		
Course General Education Status (CB25) No value	,	
Transferability (CB05)	Transferability Status	
Not transferable	Not transferable	

# **Units and Hours**

# Summary

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

Total Course In-Class (Contact)

36

Hours

Total Course Out-of-Class Hours 72

**Total Student Learning Hours108** 

**Faculty Load** 

0

# Credit / Non-Credit Options

Course Credit Status (CB04)

Credit - Degree Applicable

Course Non Credit Category (CB22)

Credit Course.

Non-Credit Characteristic

No Value

Course Classification Code

(CBI1)

Credit Course.

\_\_\_,

Variable Credit Course

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience Education

Status (CB10)

**Weekly Student Hours** 

Lecture Hours

Laboratory Hours

**Activity Hours** 

Out of Class

0

In Class

2

0

**Course Student Hours** 

Course Duration (Weeks) 18 Hours per unit divisor54

Course In-Class (Contact) Hours

Lecture

Laboratory

Activity Total 0

36

36

**Course Out-of-Class Hours** 

Lecture

72

Laboratory

0

Activity

72

# **Time Commitment Notes for Students**

No value

**Faculty Load** 

Extra Duties: 0

Faculty Load: 0

Units and Hours - Weekly Specialty Hours

**Activity Name** 

Type

In Class

Out of Class

No Value

No Value

No Value

No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

#### Advisory

#### ENGL85A - Foundations in Academic Litera

#### Objectives

- A. Use the reading process, at the pre-transfer level, to access a variety of texts.
- · A1. Make connections between course readings and prior knowledge.
- A2. Utilize inferencing when scanning texts to draw conclusions.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### Outcomes

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- · Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

#### FIRE30 - Fire Protection Organization

Or current volunteer/paid call, seasonal or full-time firefighter for a certified fire protection department Outcomes

- . Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

## AND

#### Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

# **Entrance Skills**

**Entrance Skills** 

Description

No value

No value

#### Limitations on Enrollment

Limitations on Enrollment

Description

Full-time firefighter or minimum of one continuous year as a paid-call firefighter. Valid California Class B (Commercial or Firefighter) permit with Tank and Air Brake endorsements. If the student has a

No Value

Course Outline of Record Report

Commercial California Driver's License, it must indicate Manual Transmission and have a current Health Questionnaire.

6/28/2022, 8:30 AM

# Specifications

Methods of Instruction

Methods of Instruction

Lecture

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Problem Solving

Methods of Instruction

Other

Rationale

Other - In class individual, small and large group activities

Methods of Instruction

Other

Rationale

Other - Demonstration of Positioning techniques

Methods of Instruction

Other

Rationale

Other - Demonstration of rescue techniques

Methods of Instruction

Other

Rationale

Other - Video

**Assignments** 

#### READING

- 1. Student information sheets
- 2. Class handout materials

#### WRITING

- 1. Complete student information sheets
- 2. Complete class notebook
- 3. Complete Report Forms

#### OUTSIDE

- 1. Reading student information sheets
- 2. Practice equipment safety procedures
- 3. Practice manipulative skills

#### CRITICAL THINKING

- 1. The student will analyze and evaluate required strategies in scenario participation.
- 2. The student will implement a positive plan of action in order to demonstrate the required skills for performing as an operator of emergency apparatus.

Methods of Evaluation Rationale Other - Demonstration of competency in use of all equipment Other No value Class Participation No value Simulation Written examinations No value Equipment No Value Textbooks Author Title Publisher ISBN No Value No Value No Value No Value No Value Other Instructional Materials Description Instructor handouts and student manuals approved by the State Fire Marshal for course content. Author **Equipment Operator for Volunteer Firefighters** Citation Materials Fee No value

# Learning Outcomes and Objectives

**Course Objectives** 

Prepare Volunteer Firefighters to operate specialty equipment and apparatus

**CSLOs** 

Distinguish legal requirements, forms, and reports required for equipment and incident response.

Expected SLO Performance: 70.0

Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLO

Evaluate proper operation and positioning at fires, rescues, and other emergencies.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Inventory various auto extrication methods.

Expected SLO Performance: 70.0

ISLOs

Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Describe defensive driving techniques.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

#### Outline

#### **Course Outline**

#### I. Responsibilities, Standards, and Laws

- A. Orientation and Administration
  - 1. California Commercial Driver Handbook
    - a. Code 3 authorization
    - b. Warning systems
    - c. Civil liability
    - d. Rules of the road
- B. Fire Apparatus Driver/Operator Responsibilities
  - 1. California Vehicle Code
  - 2. California Commercial Driver Handbook
  - 3. NFPA 1002: Standard for Fire Apparatus Driver/Operator Professional Qualifications
- C. Legal Aspects of Emergency and Nonemergency Driving

#### II, Forms and Reports

- A. MC 102
- B. EDT report form
- C. Motor Vehicle Accident report form
- D. LE-66 Preliminary Fire Investigation report
- E. FC-33 Overhead Crew and Equipment report
- F. ME-101 Daily Equipment report
- G. ME-14 Faulty Equipment report

#### III. Emergency Equipment Placement

- A. Positioning at fires
- B. Positioning at rescues
- C. Positioning at other emergencies

#### IV. Strategy and Tactics

- A. Structure fires
- B. Wildland fires
- C. Vehicle fires

## V. Pre-Trip

- A. DL 533 score sheet
- **B.** Inspection
- C. Maintenance
- D. Washing -

#### vi. Auto Extrication

- A. Safety/Patient care
- B. Vehicle stabilization

#### C. Equipment and Techniques

#### VIL E.V.O.C.

- A. Defensive Driving Techniques
  - 1. Defensive Driving
  - 2. Factors of Defensive Driving
  - 3. The Defensive Driver
  - 4. Factors Contributing to Accidents
  - 5. Safe Driving Techniques
- B. Principles of Code 3 Response
- C. Procedures
- D. Roadway Operations
- E. Driving Apparatus to Incidents
- F. Principles of Off-Road Driving
  - 1. Off-Road Defined
  - 2. Indications That Lead to Off-Road Operations
  - 3. Risks of Off-Road Operations
  - 4. Driving on Dirt Roads
  - 5. Driving Without Roads
  - 6. Four-Wheel Drive
  - 7. Operations Near Other Equipment
  - 8. Safety Precautions
- G. Principles of Braking and Stopping
  - 1. Braking
  - 2. Four Factors Determine Stopping Distance
  - 3. Braking Technique
- H. Principles of Steering and Load Control
  - 1. Physical Forces That Affect Control
  - 2. Weight Transfer
  - 3. Tire Contact Patches
  - 4. Skids
  - 5. Steering in Curves
  - 6. Typical Turn Classifications
  - 7. Control Considerations
  - 8. Steering Control
  - 9. Tire Failure
  - 10. Skid Control
- I. Driving During Adverse Weather Conditions
  - 1. Adverse Weather Conditions
  - 2. Equipment
- J. Driving exercises
  - 1. Lane change
  - 2. Dogleg
  - 3. Alley dock
  - 4. AL 170 Check Out Drive

# viii. Pump Theory

- A. Pump types
- B. Relief values
- C. Hydraulics
- D. Pump cavitation
- E. Plumbing systems
- F. Transmitting power to pumps
- G. Relay pumping
- H. Pump evolutions
- I. Field exercise
  - 1. Pumping from draft
  - 2. Pumping from hydrant
  - 3. Pumping from tank

# Exhibit J



# Merced College Course Outline of Record Report

# FIRE67A: Low Angle Rope Rescue, Operational

# **General Information**

Author:

- Bryan Donnelly

Course Code (CB01):

FIRE67A

Course Title (CB02):

Low Angle Rope Rescue, Operational

Cohort:

Fire Technology

Proposal Start:

2020U

TOP Code (CB03):

No value

CIP Code: SAM Code (CB09) : No value

Distance Education Approved:No

Course Control Number (CB00) :CCC000619478

Curriculum Committee Approval Date:09/05/2019

Board of Trustees Approval Date:10/08/2019

External Review Approval Date: Pending

Course Description:

This course is designed to introduce the novice to the basics of equipment nomenclature, rope

design and construction, care and maintenance, knots and webbing, as they apply to rope rescue

emergencies.

Submission Rationale:

Mandatory Revision

6 yr. CTE Review. Title Change (State Fire Marshal course)

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline Preferred: No value

## **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

Course is not a basic skills course.

Course is not a special class.

Pass/No Pass
 Letter Grade Methods

Allowed Number of Retakes

Course Prior To College Level (CB21)

Allow students to gain Credit for Prior

Learning (CPL)	0	Not applicable.	
Credit for Prior Learning assessmen	nt Retake Policy Des	scription	
methods accepted	No value	☐ Allow Students To Audit Course	
No value			
Course Support Course Status (CB2	26)		
No value			
Associated Programs			
Course is not of a second (CR	24)		
Course is part of a program (CB.			
Associated Program No value	Award Type  No value	Active	
Transferability & Can Es	d Ontions		
Transferability & Gen. Ec	a. Options		
Course General Education Status (CB25)	on		
No value		Transferability Status	
Transferability (CB05)		Not transferable	
Not transferable			
Units and Hours		•	
S			
Summary Minimum Credit Units (CB07)1			
Maximum Credit Units (CB06)1			
Total Course In-Class (Contact) Hours	18		
Total Course Out-of-Class Hours	36		
Total Student Learning Hours54			
Faculty Load	0		
Credit / Non-Credit Optio	ns		
Course Credit Status (CB04)	Course Non Cred	it Category (CB22) Non-Credit Characteristic	
Credit - Degree Applicable	Credit Course.	No Value	

Course Classification (	Code (CB11)	Funding Agency Ca	itegory (CB23)	Cooperative Work Experience Education	
Credit Course.		No value		Status (CB10)	
☐ Variable Credit Cou	rse				
Weekly Student	Hours		Course Studen	t Hours	
	In Class	Out of Class	Course Duration	(Weeks)18	
Lecture Hours	1	2	Hours per unit di	visor54	
Laboratory Hours	0	0	Course In-Class (6	Contact) Hours	
Activity Hours	0	0	Lecture	18	
			Laboratory	0	
			Activity	0	
			Total	18	
			Course Out-of-Cla	ass Hours	
			Lecture		
			laborator.	36 0	
			Laboratory	0	
			Activity Total	36	
Time Commitme	ent Notes for	Students			
No value					
Faculty Load					
Extra Duties: 0	`,		Faculty Load: 0	į	
Units and Hours	- Weekly Spe	ecialty Hours			
Activity Name		Туре	In Class	Out of Class	

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

#### Advisory

No Value

ENGL85A - Foundations in Academic Literacy I

#### **Objectives**

- A1. Make connections between course readings and prior knowledge.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.

No Value

- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of

No Value

No Value

texts.

#### **Outcomes**

 Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

#### Prerequisite

FIRE30 - Fire Protection Organization

#### Outcomes

 Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# AND

## Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

# **Entrance Skills**

Entrance Skills	Description
No value	No value

#### Limitations on Enrollment

Limitations on Enrollment	Description
No value	No value

# **Specifications**

Methods of Instruction

Rationale	No value

Methods of Instruction	Other
wethous of instruction	Other

Rationale	Other - Problem Solving

Other Methods of Instruction Other - In class individual, small and large group activities Rationale Methods of Instruction Other Rationale Other - Demonstration of rescue techniques Other Methods of Instruction Rationale Other - Video **Assignments** READING 1. Handouts WRITING 1. Complete student information sheets 2. Complete student notebooks OUTSIDE 1. Read, review and study handouts 2. Practice manipulative skills CRITICAL THINKING 1. The student will evaluate the situation and proper use of specific knots. 2. The student will demonstrate proper use of specific knots. Methods of Evaluation Rationale Other Other - Manipulative skills testing Other Other - Application in simulated situations Equipment

No Value

**Textbooks** 

Author Title Publisher Date ISBN

No Value No Value No Value No Value No Value

Other Instructional Materials

Description Hand out materials

Author

Citation

Rope Rescue

Description

State Fire Marshal required handouts and current forms

Author

No value

Citation

No value

#### **Materials Fee**

No value

# **Learning Outcomes and Objectives**

# **Course Objectives**

No value

#### **CSLOs**

Distinguish tools and equipment relative to rope rescue.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core iSLOs

Use the required knot tying skills necessary in successful rope rescue scenarios.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Describe the proper maintenance and storage of rope rescue equipment.

Expected SLO Performance: 70.0

ISLOs . Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

#### **Outline**

#### **Course Outline**

#### I. Definitions

#### II. Common rope types

- A. Three strand laid rope (dynamic line)
  - 1. Main strands
  - 2. Twisted yarns
  - 3. Yarns
  - 4. Fibers

#### B. Braided Ropes (static line)

- 1. Diamond Bread
- 2. Main strand
- 3. Fibers

#### C. Braid on Braid (static line)

- 1. Outer jacket or sheath
- 2. Herring bone braid
- 3. Main strand (yard bundles)
- 4. Fibers

#### D. Kernmantle Rope (dynamic line)

- 1. Outer jacket or sheath
- 2. Diamond braids
- 3. Main strands (yarn bundles)
- 4. Fibers

#### E. Kernmantle Rope (static line)

- 1. Outer jacket or sheath
- 2. Parailel yarn bundles
- 3. Yarns
- 4. Fibers

# III. Tubular Webbing Construction Types

- A. Spiral
- B. Chain

## IV. Rescue Knots

- A, Figure 8 stopper
- B. Figure 8 bend
- C. Figure 8 follow through
- D. Figure 8 on a bight
- E. Three-wrap prusik
- F. Bowline
- G. Overhead
- H. Double overhand bend
- I. Square knot

# v. Attaching Sling to Anchors

- A. Single loop
- B. Multi loop
- C. Three-bight
- D. Lark's foot

# vi. Load Sharing

- A. Two-point load sharing
- B. Two-point load sharing with load shift
- C. Three-point load sharing
- D. Three-point load sharing with load shift

#### VII. Load Equalizing

- A. Two-point load equalizing
- 8. Two-point load equalizing with load shift
- C. Three-point load equalizing
- D. Three-point load equalizing with load shift

# VIII. Components of Self-Equalizing Anchors

- A. The anchors to be self-equalized
- B. Tag lines (if anchors are distant)
- C. Self-equalized loop
- D. Safety loops and/or double carabineers
- E. Proper field angle (maximum 90)

## IX.Friction Device Hook-ups/Figure 8 Descent Device

- A. Light, medium and heavy duty
- B. Double line
- C. Lockoff

#### x. Carabineer Descent Systems

- A. Single
- B. Double
- C. Triple

#### XI. Rescue Chest Harness

- A. Hasty
- B. Hanson
- C. Chest harness
- D. Rappel seat

# XII. T.MA Systems and piggyback systems

# XIII. Belaying

- A. Belaying stance
- B. Mechanical belays
- C. Belay movements
- D. Belaying calls

# XIV. Stocks Rigging/Hood-ups/Lashing

- A. Fully adjustable pre-rig
- B. Hasty rig
- C. Vertical raising or lowering
- D. Telpher lines
- E. Interior and exterior lashing

# Exhibit K



# Merced College Course Outline of Record Report 06/28/2022

# FIRE67B: Auto Extrication

#### General Information

Author.

· Bryan Donnelly

Course Code (CB01):

FIRE67B

Course Title (CB02):

**Auto Extrication** 

Cohort:

Fire Technology

Proposal Start:

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000461376 Curriculum Committee Approval Date:09/05/2019 Board of Trustees Approval Date:10/08/2019

External Review Approval Date:Pending

Course Description:

This course provides classroom instruction of vehicle rescue concepts. It introduces students to common vehicle rescue tools and hands-on practice of basic techniques used to free persons entrapped in vehicles as a result of traffic collisions. To successfully complete the skills portion, students must have the ability to lift tools that may weigh in excess of 50 pounds and perform other rigorous physical tasks. Students must supply instructor approved personal protective equipment (required instructional material) equivalent to that of a structural firefighting ensemble. This shall, at a minimum, include a helmet with face shield and/or goggles, leather gloves, turnout coat and pants, and turnout boots (or steeltoed lace-up leather boots at least 8" in height with lugged soles).

lugg

Submission Rationale:

Mandatory Revision

6 yr. CTE Review

Author:

No value

#### **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred: No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08) Course Special Class Status (CB13) **Grade Options** Course is not a basic skills course. Course is not a special class. Letter Grade Methods · Pass/No Pass Course Prior To College Level (CB21) **Allowed Number of Retakes** Allow students to gain Credit for Prior Learning (CPL) 0 No value Credit for Prior Learning assessment **Retake Policy Description** methods accepted Allow Students To Audit Course No value No value Course Support Course Status (CB26) No value **Associated Programs** Course is part of a program (CB24) Active **Associated Program Award Type** No value No value

# Transferability & Gen. Ed. Options

Course General Education Status (CB25)

No value

Transferability (CB05)

Not transferable

**Transferability Status** 

Not transferable

## **Units and Hours**

# Summary

Minimum Credit Units (CB07)0.5

Maximum Credit Units (CB06)0.5

**Total Course In-Class (Contact)** 

Hours

Total Course Out-of-Class Hours 18

9

Total Student Learning Hours27

Faculty Load

0

# **Credit / Non-Credit Options**

**Course Credit Status** Course Non Credit Non-Credit Characteristic (CB04) Category (CB22) No Value Credit - Degree Applicable Credit Course. Cooperative Work Experience Education Course Classification **Funding Agency Category** Code (CB11) (CB23) Status (CB10) Credit Course. Not Applicable. Variable Credit Course

Weekly Student	Hours		Course Student Ho	ours
	In Class	Out of Class	Course Duration (Weel	cs)18
Lecture Hours	0.5	1	Hours per unit divisor	54
Laboratory Hours	0	0	Course In-Class (Conta	ct) Hours
Activity Hours	0	0	Lecture	9
			Laboratory	0
			Activity	0
			Total	9
			Course Out-of-Class He	ours
			Lecture	
				18
			Laboratory	0
			Activity	0
			Total '	18

#### **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0 Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

**Activity Name** In Class Out of Class Type No Value No Value No Value No Value

#### Advisory

#### ENGL85A - Foundations in Academic Litera

#### **Objectives**

- · A1. Make connections between course readings and prior knowledge.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### Outcomes

 Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

FIRE30 - Fire Protection Organization

Or currently a paid call, seasonal, or full-time firefighter **Outcomes** 

- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# AND

#### Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

## **Entrance Skills**

Entrance Skills	Description		
	,		
No value	No value		

#### Limitations on Enrollment

Limitations on Enrollment	Description
No value	No value

#### **Specifications**

Methods of Instruction

Methods of Instruction Lecture

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Films and/or videotapes

Methods of Instruction

Demonstration

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Scenario exercises

#### Assignments

#### READING

1. Text

#### WRITING

1. Papers relating to the class scenario exercises

#### OUTSIDE

1. Textbook reading assignments

# CRITICAL THINKING

- 1. Given a scenario depicting a "pin-in" situation, the student will evaluate the incident and identify the factors relating to rescuer safety and the potential for further injury of trapped vehicle occupants.
- 2. Given a scenario depicting a "pin-in" situation, the student will identify the fire service extrication tools that would be used to extricate the victim and describe the proper use of those tools.
- 3. Given a scenario depicting a "pin-in" situation, the student will develop a plan for extrication while identifying which vehicle components will function to impede or assist the rescue.

Methods of Evaluation

Rationale

Other

Other - Skill Tests

Class Participation

No value

Exams/Tests

No value

#### Equipment

Students must supply instructor approved personal protective equipment (required instructional material) equivalent to that of a structural firefighting ensemble. This shall, at a minimum, include a helmet with face shield and/or goggles, leather gloves, turnout coat and pants, and turnout boots (or steeltoed lace-up leather boots at least 8" in height with lugged soles).

#### **Textbooks**

Author	Title	Publisher	Date	ISBN
IFSTA	Principles of Vehicle Extrication	Fire Protection Publications	2017	978-0-87939-597-1

Other	Instructional	Materials

Description

Instructor handouts

Author

No value

Citation

No value

#### Materials Fee

No value

# **Learning Outcomes and Objectives**

#### **Course Objectives**

Prepare the student to respond to vehicle incidents that might be encountered during rescue operations and the procedures and systems used during auto extrication.

#### **CSLOs**

Describe methods of protecting rescuers and others at highway incidents.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Describe various methods used to remove victims from "pin-ins" accidents.

Expected SLO Performance: 70.0

ISLOS Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Categorize vehicle components that assist or impede rescue

Expected SLO Performance: 70.0

ISLOS Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Demonstrate methods of using vehicle components to advantage during rescue.

Expected SLO Performance: 70.0

ISLOS Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Demonstrate the use of various fire service extrication tools to free simulated victims.

Expected SLO Performance: 70.0

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

ISLOs Core ISLOs

#### Outline

#### **Course Outline**

## I. Brief history of fire service auto extrication work

#### II. Becoming an auto extrication "expert"

- A. Avoiding "Jawsitis," applying common sense to solving rescue problems
- B. Scene assessment
- C. Scene management
- D. Scene safety
- E. The extrication "team"
- F. General vehicle construction
  - 1. Special considerations in newer vehicles
  - 2. Supplemental restraint systems (airbags) and their hazards
- G. "Pin-in categories

#### III. Rescue techniques

- A. Skills
  - 1. Access and operate/disable door latch/lock mechanism
  - 2. Create purchase points for spreading tools
  - 3. Door opening latch end
  - 4. Door removal hinge end
  - 5. Roofflap backward, forward, sideward
  - 6. Roof removal
  - 7. Remove back of front seat
  - 8. Displace seat
  - 9. Displace steering wheel
  - 10. Displace steering column push
  - 11. Displace steering column pull
  - 12. Displace pedal
  - 13. Dash roll- with spreader/ram/other
  - 14. Displace floorboard/firewall (forward)
  - 15. Displace interior components console, shifter, floorboard, other
  - 16. Open side remove "Bpillar (doors attached)
  - 17. Open side remove "B" pillar (one door)
  - 18. Malee third door two door vehicle
  - 19. Trunk tunnel
  - 20. Pillar/panel pull- anchor opposite
  - 21. Stabilize vehicle on wheels
  - 22. Stabilize vehicle on top
  - 23. Stabilize vehicle on side
  - 24. Lift/crib vehicle
  - 25. Windshield removal specific to vehicle/windshield type
  - 26. Side/rear glass removal
  - 27. Access engine compartment/trunk area
  - 28. Unique evolutions vehicle specific (hatchbacks. van doors, other)
- B. Rescue tool types
  - 1. Heavy hydraulic rescue tools
  - 2. Heavy lift airbags and vehicle stabilization equipment
  - 3. Lightweight powered and non-powered rescue tools
  - 4. "Non-rescue" manual tools applying tools not normally used for rescue
- C. Rescue tool care and maintenance
- D. Rescue tool use
  - 1. Use of heavy hydraulic rescue tools
  - 2. Use of heavy lift airbags and vehicle stabilization equipment
  - 3. Use of lightweight powered and non-powered rescue tools
  - 4. Use of "Non-rescue" manual tools applying tools not normally used for rescue

# Exhibit L



# Merced College Course Outline of Record Report

# FIRE68B: Basic Incident Command System (I-200)

# General Information

Author:

Gabriela Garcia

Course Code (CB01):

FIRE68B

Course Title (CB02):

Basic Incident Command System (I-200)

Cohort:

Fire Technology

**Proposal Start:** 

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

**Distance Education Approved:**Yes

Course Control Number (CB00):CCC000373840

**Curriculum Committee Approval** 

Date: 09/05/2019 Board of Trustees Approval

Date:10/08/2019 External Review Approval

Date:Pending

This course is designed for the entry-level and veteran firefighter. The subject matter relates to

principles and features of ICS, organization, incident facilities, incident resources and

responsibilities associated with ICS Assignments. Student must have instructor verified ICS (1-100)

completion.

Submission

No value

Rationale:

No value

# **Faculty Requirements**

**Master Discipline** 

- Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course is not a basic skills course.

**Course Special Class Status** 

Allowed Number of

(CB13)

**Grade Options** 

- Pass/No Pass

- Letter Grade Methods

**Course Prior To College Level** 

Allow students to gain Credit for Prior Learning (CPL)

	0	No value	
Credit for Prior Learning	Retake Policy Description	_	
assessmentmethods accepted	No value	Allow Students To Audit Course	
No value			
Course Support Course Status (CB26)			
No value			
Associated December			
Associated Programs			
Course is part of a program (CB24)			
Associated Program	Award	Activ	
No value	Туре		
Transferability & Gen. Ed. Options			
Course General Education Status (CB25)			
No value			
Transferability (CB05)	Transferability Status		
Not transferable	,		
Units and Hours			
Summary			
Minimum Credit Units (CB07)1			
Maximum Credit Units (CB06)1			
Total Course In-Class (Contact) 18			
Hours			
Total Course Out-of-Class 36			
Hours			
Total Student Learning Hours54			
Faculty Load 0			
Credit / Non-Credit Options			
Course Credit Status (CB04)	Course Non Credit Category (CB22)	Non-Credit Characteristic	
Credit - Degree Applicable	Credit Course.	No Value	

Course Classification (	Code (CB11)	Funding Agency Ca	itegory (CB23)	Cooperative Work Experience Education
Credit Course.		Not Applicable.		Status (CB10)
Variable Credit Cou	rse			
Weekly Student	Hours		Course Studen	t Hours
	In Class	Out of Class	Course Duration (	Weeks)18
Lecture Hours	1	2	Hours per unit di	visor54
Laboratory Hours	0	0	Course In-Class (C	Contact) Hours
Activity Hours	0	0	Lecture	18
			Laboratory	0
			Activity	0
			Total	18
			Course Out-of-Cla	ss Hours
			Lecture	
				36
			Laboratory	0
			Activity	0
			Total	36
Time Commitme	ent Notes for S	Students		
No value				
- 14 1				

# **Faculty Load**

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity	Туре	In Class	Out of
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E Objectives

- A. Use the reading process, at the pre-transfer level, to access a variety of texts.
- A1. Make connections between course readings and prior knowledge.
- A2. Utilize inferencing when scanning texts to draw conclusions.

- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of

### **Outcomes**

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Evaluate, at the pre-transfer level, primary and secondary sources.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# **Entrance Skills**

Entrance	Descriptio
No value	No value
Limitations on Enrollment	
Limitations on	Descriptio
Instructor-verified ICS (I-100) completion.No	
Specifications	
Methods of	
Instruction	Lecture
Rational	No value
Methods of	Other
Rational	Other - Videos and slides
Methods of	Other
Rational	Other - Group activities
Assignments	

# READING

1. Handouts

WRITING

1. Complete student information sheets

2. Complete student notebooks

### OUTSIDE

1. Read, review and study handouts

# CRITICAL THINKING

- 1. Given scenario situations the student will identify the command applicable command structure and associated responsibilities.
- 2. Given scenario situations the student will identify what resources would be needed and how to access those resources.

**Methods of Evaluation** 

Rationale

Other

Other - Class assignments

Other

Other - Testing

Equipment

No Value

**Textbooks** 

Author

Title

Publisher

ISBN

No Value

No Value

No Value

No Value

Date

No Value

**Other Instructional Materials** 

Descriptio

Hand out materials. Current materials provided by certification and governing agency.

nAuthor

Citation

Basic Incident Command System (I-200)

Materials

Fee

# **Learning Outcomes and Objectives**

Course Objectives

**CSLOs** 

Distinguish between the principles and features of the Incident Command

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Inventory the organizational structure, development, and transfer of command.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Describe the role of the command post, staging area, base camp, helibase, and helispots in a major incident.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Demonstrate an understanding of the responsibilities associated with various ICS assignments.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

# Outline

# **Course Outline**

# L. Principals and Features of ICS

- A. Five primary functions
- B. Management
  - 1. Management by objectives
  - 2. Unity and chain of command
  - 3. Transfer of command
  - 4. Organizational flexibility
  - 5. Unified command
  - 6. Span of control
- C. Common terminology
- D. Personnel accountability
- E. Integrated communications
- F. Resources management
- G. Incident Action Plan

# II. Organizational Overview

- A. Terminology
- B. Organizational structure
- C. How the organization expands and/or contracts
  - 1. How the organization initially develops at an incident
  - 2. Transfer of command

# III. Incident Facilities

- A. Command post
- B. Staging area
- C. Base
- D. Camps
- E. Helibase
- F. Helispots

# V. Incident Resources

- A. Resources often used
- B. Why resource status keeping is important to effective incident operations
- C. Types of resources for various applications
- D. Three ways of using resources on an incident
- E. Resources status conditions
- F. Changing and maintaining status on resources

# V, Common Responsibilities Associated with ICS Assignments

- A. Prior to leaving for assignment
- B. At incident check-in
- C. While working on the incident
- D. During demobilization

# **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title5 Section 55220. (Possible Responses in the pull-down menu — select all that apply)

· lecture and all outside activities fully online

### Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition andApplication as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- discussion board activities
- quiz activities
- supplemental instructional video, such as YouTube, TedTalks, and PBS

# Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online coursewill offer:

- weekly lectures
- discussion opportunities between students weekly
- student-to-student activities such as group work
- regular assessment: both formative and summative
- · regular feedback weekly

re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- · weekly lectures
- weekly announcement using the LMS (Canvas)
- · online orientation non-mandatory
- · timely feedback within the LMS (Canvas) within 72-hours of the due date
- · midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- · LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- · periodic online workshops non-mandatory

### Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – selectall that apply)

- · weekly discussion boards robust posts and replies
- LMC (Canvas) email

# Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu

- select all that apply)
- The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor will be using a 'Blueprint' course created by Merced College.

# Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meetsregular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-downmenu – select all that apply)

- Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent withlocal district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section55208. (Possible Responses in the pull-down menu – select all that apply)

- other (specify in comment box)

Specify "Other" here:

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. FacultySelection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

Specify "Other" here:

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload asdefined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

- Yes

# Exhibit M



# Merced College Course Outline of Record Report

# FIRE68C: Incident Command System - Intermediate (I-300)

# General Information

Author:

- Gabriela Garcia

Course Code (CB01):

FIRE68C

Course Title (CB02):

Incident Command System - Intermediate (I-300)

Cohort:

Fire Technology

**Proposal Start:** 

20185

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

**Distance Education Approved:**Yes

Course Control Number (CB00) :CCC000358007

**Curriculum Committee Approval** 

Date:11/16/2017Board of Trustees Approval
Date:12/06/2011 External Review Approval

Date:11/16/2017 Course Description:

This course is designed for the entry-level and veteran firefighter. The subject matter relates to organization and staffing for incidents or events, incident resources management, air operations

and incident event planning.

Submission Rationale: No value

No value

# **Faculty Requirements**

**Master Discipline** 

- Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred: No value

**Additional Bachelors or Associates Discipline** 

Preferred:

No value

# **Course Development Options**

Basic Skill Status (CB08)

Course is not a basic skills course.

**Course Special Class Status** 

(CB13)

Course is not a special class.

**Grade Options** 

Letter Grade Methods

Course Prior To College Level (CB21)

Pass/No Pass

\_\_ Allow students to gain Credit for Prior

Learning (CPL)

**Allowed Number of Retakes** 

No value

18

Credit for Prior Learning	Retake Policy Description	
assessmentmethods accepted	No value	Allow Students To Audit Course
No value		
Course Support Course Status (CB26)		
No value		
Associated Programs		
Course is part of a program (CB24)		
Associated Program	Award	Activ
No value	Туре	
Transferability & Gen. Ed. Options		
Course General Education Status (CB25)		
No value	•	
Transferability (CB05)	Youngland like Caseur	
Not transferable	Transferability Status  Not transferable	
	Not transcrape	
Units and Hours		
Summary		
Minimum Credit Units (CB07)1.5		
Maximum Credit Units (CB06)1.5		
Total Course In-Class (Contact) 27		
Hours		
Total Course Out-of-Class 54		
Hours		
Total Student Learning Hours81		
Faculty Load 0		
Credit / Non-Credit Options		
Course Credit Status (CB04)	Course Non Credit Category (CB22)	Non-Credit Characteristic
Credit - Degree Applicable	Credit Course.	No Value
Course Classification Code (CB11)	Funding Agency Category (CB23)	Cooperative Work Experience Education
		Status (CB10)

Credit Course.

Not Applicable.

☐ Variable Credit Course

Weekly	Student	Hours
--------	---------	-------

	in Class	Out of Class
Lecture Hours	1.5	3
Laboratory Hours	0	0
Activity Hours	0	0

# **Course Student Hours**

Course Duration (Weeks) 18	3
Hours per unit divisor54	
Course In-Class (Contact) H	lours
Lecture	27
Laboratory	0
Activity	0
Total	27

Lecture	
	54
Laboratory	0
Activity	0
Total	54

# **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity	Туре	In Class	Out of
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E

AND

Prerequisite

# FIRE68B - Basic Incident Command System (I-200)

# **Entrance Skills**

Entrance

Descriptio

No value

No value

# Limitations on Enrollment

Limitations on

Descriptio

No value

No value

# **Specifications**

Methods of Instruction

Lecture

Rational

No value

Methods of

Demonstration

Rational

No value

Methods of

Other

Rational

Other - Videos and/or slides

Methods of

Other

Rational

Other - Role playing

# **Assignments**

# READING

1. Handouts

# WRITING

- 1. Complete student information sheets
- 2. Complete student notebooks

# OUTSIDE

1. Read, review and study handouts

# CRITICAL THINKING

- 1. Given scenario situations the student, through oral presentations, will identify the general duties of each organizational element, the terminology utilized, staffing considerations, and reporting relationships when organized under the Incident Command System (ICS).
- 2. In an oral and written presentation, the student will explain how to set up an effective organizational specialty areas to support incidents.

Methods of Evaluation		Rationale			
Other		Other - Class assignmen	ts		
Other		Other - Testing			
Equipment					
No Value					
Textbooks					
Author	Title		Publisher	Date	ISBN
State Fire Marshal, California	ICS 300		California State Fire Marshal	2013	
			1419121191		
Other Instructional Materials					
Descriptio n		Instructor prepared hand	lout materials as approve	d by the certifying body	
Author					
		Incident Command Syste	m - Intermediate (I-300)		
Materials					
Fee					

# **Learning Outcomes and Objectives**

# Course

- A. Describe the incident/event management process for supervisors and expanding incidents as described by the Incident Command System (ICS).
- B. Implement the incident management process on a simulated expanding incident.
- C. Develop an Incident Action Plan for a simulated incident.

### **CSLOs**

### Analyze the principles of organization and staffing in

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

### Inventory components of organizing for incidents and

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

# Examine the role of incident resources

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

# Outline

# **Course Outline**

# I. Organization and Staffing

- A. Responsibilities of organizational elements in each section of the ICS
- B. General duties of each organizational elements
  - 1. Terminology
  - 2. Staffing considerations
  - 3. Reporting relationships

# II. Organizing for Incidents or Events

- A. Manner in which incidents and events are organized to ensure achieving objectives
- B. Steps in organizational development
- C. Incident briefing
- D. Reporting information and forms

# III. Resource management process at an incident

- A. Resource management
  - 1. Responsibilities related to resource ordering
  - 2. Use of Operational Planning Worksheet
- 8. Importance of Staging Areas
- C. Demobilization of Resources
- D. Cost-effective resource management

# IV. Air Operations Branch

- A. Description
- B. How to set up an effective aviation organization

# V. Incident and Event Planning

- A. Planning process
- B. Development of incident objectives, strategies and tactics
- C. Use of operational periods
- D. Planning meetings
- E. Major steps and personnel involved in planning
- F. Support plans
  - 1. Communications
  - 2. Medical
  - 3. Traffic
  - 4. Incident Action Plan Forms

# **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

· lecture and all outside activities fully online

# Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition andApplication as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- discussion board activities
- quiz activities
- supplemental instructional video, such as YouTube, TedTalks, and PBS

# Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- · work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) - The online coursewill offer:

- · weekly lectures
- discussion opportunities between students weekly
- · student-to-student activities such as group work
- · regular assessment: both formative and summative
- · regular feedback weekly
- · re-teaching opportunities

Specify	"Other"	for	Response #3	here:
---------	---------	-----	-------------	-------

No Value

# Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- · weekly lectures
- weekly announcement using the LMS (Canvas)
- online orientation non-mandatory
- timely feedback within the LMS (Canvas) within 72-hours of the due date
- · midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- · periodic online workshops non-mandatory

# Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – selectall that apply)

- · weekly discussion boards robust posts and replies
- LMC (Canvas) email

# Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu

- select all that apply)
- The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- . The instructor will be using a 'Blueprint' course created by Merced College.

# Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meetsregular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-downmenu – select all that apply)

- Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

- other (specify in comment box)

Specify "Other" here:

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. FacultySelection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

Specify "Other" here:

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload asdefined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

Yes

# Exhibit N



# Merced College Course Outline of Record Report 06/28/2022

# FIRE68D: Advanced Incident Command System (I-400)

# **General Information**

Author.

- Gabriela Garcia

Course Code (CB01):

FIRE68D

Course Title (CB02):

Advanced Incident Command System (I-400)

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

No value

CIP Code:

No value

SAM Code (CB09):

No value

**Distance Education Approved:Yes** 

Course Control Number (CB00) :No value

Curriculum Committee Approval Date:11/03/2016

Board of Trustees Approval Date:04/05/2011

External Review Approval Date: Pending

Course Description:

This is an advanced course in the Incident Command System. This course is designed for senior personnel who are expected to perform in a management capacity in an Area Command or multiagency coordination system. This course is designed to provide overall incident management

skills rather than tactical expertise.

Submission Rationale:

No value

Author.

No value

# **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

No value

No value

Letter Grade Methods

Pass/No Pass

Allow students to gain Credit for Prior Learning (CPL)

Allowed Number of Retakes

Course Prior To College Level (CB21)

		· ·	NO Value		
Credit for Prior Learning assessment Retake Policy Description		Retake Policy Description	<u>_</u>		
methods accepted		No value	Allow Students To Audit Course		
No value					
Course Support Course Status (CE	126)				
No value					
Associated Programs	ı				
Course is part of a program (CI	324)				
Associated Program		Award Type	Active		
No value		No value			
Transferability & Gen. E	d. Option	ns			
Course General Education Statu	s (CB25)				
No value					
Transferability (CB05)		Transferability Sta	tus		
Not transferable		Not transferable			
Units and Hours					
Summary					
Minimum Credit Units (CB07)2					
Maximum Credit Units (CB06)2					
Total Course In-Class (Contact) Hours	36				
Total Course Out-of-Class Hours	72				
Total Student Learning Hours108					
Faculty Load	0				
Credit / Non-Credit Option	ons				
Course Credit Status (CB04)		Course Non Credit Category (CB22)	Non-Credit Characteristic		
Credit - Degree Applicable		Credit Course.	No Value		

Course Classification C	ode (CB11)	Funding Agency Ca	ategory (CB23)	Cooperative Work Experience Education
Credit Course.		No value		Status (CB10)
Variable Credit Cour	se			
Weekly Student	Hours		Course Student	Hours
	in Class	Out of Class	Course Duration (V	Veeks)18
Lecture Hours	2	4	Hours per unit divi	isor54
Laboratory Hours	0	0	Course In-Class (Co	ontact) Hours
<b>Activity Hours</b>	0	0	Lecture	36
			Laboratory	0
			Activity	0
			Total	36
			Course Out-of-Clas	ss Hours
			Lecture	
				72
			Laboratory	0
			Activity	0
			Total	72
Time Commitmen	nt Notes for S	Students		
No value				

# Faculty Load

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name Type In Class Out of Class

No Value No Value No Value No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E Objectives

- A1. Make connections between course readings and prior knowledge.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of

texts.

# Outcomes

- . Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Prerequisite

FIRE68C - Incident Command System

### **Objectives**

- A. Describe the incident/event management process for supervisors and expanding incidents as described by the Incident Command
- B. Implement the incident management process on a simulated expanding incident.
- C. Develop an Incident Action Plan for a simulated incident.

# **Outcomes**

- · Analyze the principles of organization and staffing in ICS.
- Inventory components of organizing for incidents and events.
- Examine the role of incident resources management.

# **Entrance Skills**

Entrance Skills	Description
No value	No value

# Limitations on Enrollment

Limitations on Enrollment	Description
No value	No value
Specifications	

Methods of Instruction	
Methods of Instruction	Lecture
Rationale	No value
Methods of Instruction	Other

Methods of Instruction

Class Discussion

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Scenario exercises

# **Assignments**

# READING

1. Text

### WRITING

1. Topic papers

# OUTSIDE

1. Handout reading assignments

### CRITICAL THINKING

1. The student will develop an ICS Command and General organization structure around a simulated scenario.

- 2. Given a scenario, develop the proper organizational structure for unified command at an incident.
- 3. Given an simulated incident, such as an earthquake or tornado, student groups will examine how separate incidents could be brought into a single ICS management system and create an Incident Complex structure.
- 4. Given a series critical situations, student groups will develop an ICS action plan including command structure, authority to act, and allocation of limited resources.

Methods of Evaluation		Rationale			
Other		Other - Skill Tests			
Papers		No value			
Class Participation		No value			
Equipment					
No Value					
Textbooks					
Author	Title		Publisher	Date	ISBN
No Value	No Value		No Value	No Value	No Value

# Other Instructional Materials

Current Instructor handouts for National Wildfire Coordinating Group (NWCG) material for ICS 400 Description Author

Citation

Advanced Incident Command System (I-400)

### **Materials Fee**

No value

# **Learning Outcomes and Objectives**

# **Course Objectives**

No value

# **CSLOs**

Summarize principal responsibilities for each Command, General Staff, and Liaison member.

Expected SLO Performance: 70.0

#### ISLOs Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

### Define situations which neccesitate the use of a Unified Command structure.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

# Examine the principal factors often found in, or related to, major and/or complex incidents.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

### Distinguish differences between area command, unified command, multi-agency coordination systems, and emergency operations centers.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

# Outline

# **Course Outline**

# I. Command and General Staff

- A. Background related to command and general staff development
  - 1. A standardized functional organization established
  - 2. Related functions grouped within the organization
  - 3. Subordinates within the organization delegated the necessary authority to manage their assigned functions
- 4. Every incident, small or large, simple or complex, must have some form of an action plan whether oral or written
- B. Determination of command and general staff functions
  - 1. Line and staff organizations
  - 2. Command and general staff titles
- C. Major responsibilities of command and general staff positions
  - 1. Responsibilities of Incident Commander
  - 2. ICS general staff positions
  - 3. Command staff
- D. Agency representatives

# II. Unified Command

- A. Background of unified command
  - 1. Dividing the incident either geographically or functionally
  - 2. Creating a single ICS incident structure with a built-in-process for an effective and responsible multi-jurisdictional or multi-agency approach
- B. Description of unified command
  - 1. Policies, objectives, strategies
  - 2. Organization
  - 3. Resources
  - 4. Operations
- C. Advantages of using unified command
- D. Applications
  - 1. Incidents that impact more than one political jurisdiction
  - 2. Incidents involving multiple agencies (or departments) within the same political jurisdiction
  - 3. Incidents that impact on (or involve) several political and functional agencies
- E. Primary features of a unified command organization
  - 1. A single integrated incident organization
  - 2. Collocated (shared) facilities
  - 3. A single planning process and incident action plan
  - 4. Shared planning, logistical, and finance sections
  - Unified command resource ordering
- F. Guidelines for the use of unified command
  - 1. Understand ICS unified command
  - 2. Collocate essential functions
  - 3. Implement unified command at an early stage of multi-jurisdictional or multi-agency incident
  - 4. Concur on an operations section chief and other general staff members
  - 5. If necessary, designate one of the incident commanders to be a spokesperson (operational period duty officer)
  - 6. Train often as a team
- G. Functioning in unified command
  - 1. Clarity on jurisdictional or agency limitations
  - 2. Authorization to perform certain activities and actions on behalf of the jurisdiction or agency they represent
  - 3. Unified command has the responsibility to manage the incident to the best of its abilities
  - 4. Members of the united command function together as a team

# III. Major Incident Management

- A. Problems in major or complex incident management
  - 1. They start as major incidents
  - 2. They become major incidents
- B. Characteristics of major/complex incidents
- C. Major incident management organizations
  - 1. Incident complex multiple incident, management with a single ICS organization
  - 2. Dividing a single incident into two incidents
  - Expanding the ICS planning capability for incidents
  - 4. Expanding the ICS organization to accommodate another operations section or logistics section

## IV. Area Command

- A. Definition
  - 1. Description of area command
  - 2. Terminology related to area command
  - 3. Responsibility

- 4. Reporting relationships
- B. The use of area command
  - 1. The need for area command
  - 2. Establishing area command
  - 3. The location for area command
- C. Primary functions of area command
  - 1. Provide effective agency or jurisdictional management authority for assigned incidents
  - 2. Ensuring that incident commanders have a clear understanding of agency expectations, intentions, and constraints related to the incidents
  - 3. Establishing priorities among various incidents based on incident needs and agency policy and direction
  - 4. Ensuring that incident management teams personnel assignments and organizations are appropriate to the kind and complexity of the incidents involved
  - 5. Maintain liaison with officials in charge, assisting and cooperating agencies, and other interested groups
- D. Area Command Primary Function Responsibilities
  - 1. Area Commander (Unified Area Command)
  - 2. Area command planning chief
  - 3. Area command logistics chief

## **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

· lecture and all outside activities fully online

Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- discussion board activities
- quiz activities
- · supplemental instructional video, such as YouTube, TedTalks, and PBS

Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- · work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- · weekly lectures
- · discussion opportunities between students weekly

- student-to-student activities such as group work
- · regular assessment: both formative and summative
- · regular feedback weekly
- · re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- · weekly lectures
- · weekly announcement using the LMS (Canvas)
- · online orientation non-mandatory
- · timely feedback within the LMS (Canvas) within 72-hours of the due date
- midterm and end-of-course surveys
- College email respond within 24-hours M-F
- . LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- · periodic online workshops non-mandatory

Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · weekly discussion boards robust posts and replies
- LMC (Canvas) email

Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu

- select all that apply)
- The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor will be using a 'Blueprint' course created by Merced College.

Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down

menu -	select a	I that	apply)
--------	----------	--------	--------

- . Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

- other (specify in comment box)

Specify "Other" here:

None completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

department discussions on approving DE for this course (specify date(s) in comment box)

Specify "Other" here:

4/25/20

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

- Yes

https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod=...

# **Exhibit O**



Merced College
Course Outline of Record Report
06/28/2022

FIRE69A: First Responder Medical

# **General Information**

Author:

· Bryan Donnelly

Course Code (CB01):

FIRE69A

Course Title (CB02):

First Responder Medical

Cohort:

Fire Technology

Proposal Start:

2020U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000550514

Curriculum Committee Approval Date:09/05/2019

Board of Trustees Approval Date:10/08/2019

External Review Approval Date:Pending

Course Description:

This course is designed to meet the state requirements for emergency medical personnel. The course relates to patient assessment, cardiovascular systems, fractures, splinting, childbirth and

environmental emergencies.

Submission Rationale:

Mandatory Revision

6yr. CTE Review

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline Preferred: No value

Total Course In-Class (Contact)

**Total Student Learning Hours 135** 

**Total Course Out-of-Class** 

Hours

Hours

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod = ...

Laurier (FR)		
Learning (CPL)	0	No value
Credit for Prior Learning assessment methods accepted	Retake Policy Description	_
No value	No value	Allow Students To Audit Course
Course Support Course Status (CB26)		
No value		
Associated Programs		
Course is part of a program (CB24)		
Associated Program	Award Type	
No value	No value	Active
Transferability & Gen. Ed. Option	ns	
Course General Education Status (CB25)		
No value		
Transferability (CB05)	Transf	ferability Status
Not transferable	Not trans	ferable
Units and Hours		/
Units and Hours		
Summary		
Minimum Credit Units (CB07)2.5		
Maximum Credit Units (CB06)2,5		

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod=...

Course Classification C	ode (CB11)	<b>Funding Agency Ca</b>	tegory (CB23)	Cooperative Work Experience Education	
Credit Course.		Not Applicable.		Status (CB10)	
Variable Credit Cour	se				
Weekly Student	Hours		Course Stude	ent Hours	
	In Class	Out of Class	Course Duration	(Weeks)18	
Lecture Hours	2.5	5	Hours per unit	divisor54	
Laboratory Hours	0	0	Course In-Class	(Contact) Hours	
<b>Activity Hours</b>	0	0	Lecture	45	
			Laboratory	0	
			Activity	0	
			Total	45	
			Course Out-of-C	Class Hours	
			Lecture		
			laborator.	90	
			Laboratory Activity	0	
			Total	90	
Time Commitme	nt Notes for S	Students			
No value					
Faculty Load					
Extra Duties: 0			Faculty Load: 0	4	
Units and Hours	- Weekly Spe	cialty Hours			
Activity Name		Туре	In Class	Out of Class	
No Value		No Value	No Value	No Value	

Pre-requisites, Co-requisites, Anti-requisites and Advisories

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod = ...

- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.
- · C2. Analyze texts to determine authors' modes of discourse, patterns of organization, and other rhetorical features.
- · C3. Synthesize the ideas of several academic texts in order to construct original thoughts.

# Outcomes

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

# Prerequisite

FIRE30 - Fire Protection Organization

Or currently a paid call, seasonal, or full-time firefighter **Outcomes** 

 Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# AND

# Advisory

ENGL85AC - Accelerated Foundations in Academic Literacy

# **Entrance Skills**

Entrance Skills Description

No value No value

# Limitations on Enrollment

Limitations on Enrollment Description

No value No value

# **Specifications**

Methods of Instruction

Methods of Instruction Lecture

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod=...

Rationale Other - Problem Solving Methods of Instruction Other Other - Role playing Rationale Methods of Instruction Other Other - Videos and slides Rationale

# **Assignments**

# READING

1. Handouts

# WRITING

- 1. Complete student information sheets
- 2. Complete student notebooks

- 1. Read, review and study handouts
- 2. Practice manipulative skills

# CRITICAL THINKING

- 1. Given multiple medical scenarios the student will physically and orally demonstrate the evaluation and assessment of patient status and treatment.
- 2. Given multiple traumatic scenarios the student will physically and orally demonstrate evaluation and assessment and patient treatment.
- 3. The student will orally and by written assignment identify the need for the proper involvement of different EMS system components for proper patient care and outcome.

Methods of Evaluation	Rationale				
Other Other		Other - Comprehensive examinations Other - Manipulative skills testing			
Equipment No Value					
Textbooks Author	Title	Publisher	Date	ISBN	
Le Baudour, Christopher:&	Emergency Medical Responder	Pearson	2012		

Bergeron, David

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod=...

Citation

First Responder Medical

Materials Fee

No value

# Learning Outcomes and Objectives

Course Objectives

Prepare the student to assess and treat victims of medical and traumatic emergencies.

# **CSLOs**

Identify anatomical position, match body functions with body systems, major respiratory system organs, layers of skin, abdominal quadrants, major bones of upper and lower extremities, arterial and venous bleeding.

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Use the signs and symptoms of traumatic injuries to assess injuries and specify appropriate treatment.

Expected SLO Performance: 70.0

ISLOs Core Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

ISLOs

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Recognize special problems when identifying and treating pediatric trauma and medical patients.

Expected SLO Performance: 70.0

ISLOS

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

# Outline

## Course Outline

I. FMS system

# https://mccd.elumenapp.com/elumen/WorkflowReport?actionMethod=...

- 2. Posterior
- 3. Midline
- 4. Midclavicular
- 5. Midaxillary
- B. Directional Terms
  - 1. Right and left
  - 2. Superior and inferior
  - 3. Lateral and medial
  - 4. Proximal and distal
- C. Anatomical Positions
  - 1. Prone and supine
  - 2. Flower's position
  - 3. Trendelenburg's position
  - 4. Shock position
- D. Skeletal system
- E. Musculoskeletal system
- F. Body functions and body systems
- G. Respiratory system
  - 1. Upper Airway
  - 2. Lower Airway
  - 3. Lungs
  - 4. Diaphragm
  - 5. Respiratory physiology
    - a. Characteristics of normal breathing
      - (1) normal rate and depth
      - (2) regular rhythm or pattern of inhalation and exhalation
      - (3) good audible breath sounds on both sides of chest
      - (4) regular rise and fall movement on both sides of chest
      - (5) movement of abdomen
- b. Inadequate breathing patterns in adults H. Circulatory system
  - 1. Heart
    - a. How it works
    - b. Normal heartbeat
    - c. Electrical conduction system
  - 2. Arteries
  - 3. Capillaries
  - 4. Veins
  - 5. Blood components
  - 6. Physiology of circulatory system
    - a. Normal circulation in adults
    - b. Inadequate circulation in adults
- I. Nervous system
  - 1. Central nervous system
  - 2. Peripheral nervous system
- J. Skin
- 1. Functions
- 2. Anatomy
- K. Endocrine system
- L. Digestive system
- M. Urinary system
- N. Genital system

# III. Initial Assessment/Patient evaluation

- A. Size-up of an incident scene
- B. Primary and secondary survey of a patient
  - 1. Baseline vital signs and history
  - 2. AVPU scale
  - 3. Reassessment of vital signs

- A. Establishing an Airway
- B. Cleaning the airway
  - 1. Flow-restricted, oxygen-powered ventilation device
  - 2. Using airway adjuncts
  - 3. Suction and suction devices
- C. Artificial Respiration
  - 1. Mouth-to-mask ventilation
  - 2. Bag-valve mask
  - 3. Mouth-nose
  - 4. Mouth-to stoma
- D. Artificial Circulation
  - 1. Proper Positioning
    - a. Victim
    - b. Rescuer
  - 2. Chest compressions
    - a. Rate
    - b. Rhythm
    - c. Depth
- E. Two-person Rescue
  - 1. Rate and rhythm
  - 2. Changeover
  - 3. Monitoring
- F. Child birth
  - 1. Positioning mother
  - 2. Assisting birth
  - 3. Infant care

# VI. Trauma/Bandaging

- A. Eight basic groups of trauma i.e.
  - 1. Soft tissue injuries
  - 2. Head injuries
  - 3. Brain injuries
  - 4. Chest injuries
  - 5. Genitourinary
  - 6. Shock
- B. Bandaging techniques for various head, eye, and extremity injuries

# VII. Lifting and moving patients

#### VIII. Medical emergencies

- A. Chest pain
- B. Conscious state,
- C. Respiratory distress
- D. Stroke
- E. Seizures
- F. Drug abuse

# IX. Oxygen Therapy and adjuncts

- A. Hypoxia, apnea
- B. Oxygen hazards
- C. Correct oxygen therapy
- D. Airways
  - 1. Oropharyngeal
  - 2. Nasal pharyngeal
  - 3. Oxygen masks
  - 4. Cannulas
- E. Resuscitators
- F. Portable suction units
- G. Bag valve masks

# **Exhibit P**



# Merced College Course Outline of Record Report 06/28/2022

# FIRE69B: First Responder Re-Certification

#### General Information

Author:

- Bryan Donnelly

Course Code (CB01):

FIRE69B

Course Title (CB02):

First Responder Re-Certification

Cohort:

Fire Technology

**Proposal Start:** 

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000461377

Curriculum Committee Approval Date:11/03/2016

Board of Trustees Approval Date:04/02/2013

External Review Approval Date:02/21/2013

Course Description:

This course is designed to meet the state re-certification requirements for emergency medical personnel. The course relates to patient assessment, cardio-vascular systems, fractures, splinting, childbirth and environmental emergencies. Must possess a current valid C.P.R. card in Basic Life

Support of Health Care Providers.

Submission Rationale:

**Mandatory Revision** 

CTE 2 year review

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred: No value

Additional Bachelors or Associates Discipline

No value

Preferred:

**Course Development Options** 

Basic Skill Status (CB08)		Course Special Class Stati	us (CB13)	
Course is not a basic skills course.		Course is not a special clas		Grade Options
course is not a pasic skins course.		coolse is not a special cia.		<ul> <li>Letter Grade Methods</li> <li>Pass/No Pass</li> </ul>
Allow students to gain Credit for	Prior	Allowed Number of Retai	œ	Course Prior To College Level (CB21)
Learning (CPL)		0		No value
Credit for Prior Learning assessmen	t	Retake Policy Description		
methods accepted		No value		Allow Students To Audit Course
No value				
Course Support Course Status (CB2)	5)			
No value				
Associated Programs				
Course is part of a program (CB2	4)			
Associated Program		Award Type		Active
No value		No value		
Transferability & Gen. Ed	. Options			
Course General Education Status	(CB25)			
No value			•	
Transferability (CB05)			Transferability Status	
Not transferable			Not transferable	
Units and Hours				
Summary				
Minimum Credit Units (CB07)1.5				
Maximum Credit Units (CB06)1.5				
Total Course In-Class (Contact) Hours	27			
Total Course Out-of-Class Hours	54			
Total Student Learning Hours81				

**Faculty Load** 

54

# Credit / Non-Credit Options

Course Credit Status (CB04)	Course Non Credit Category (CB22)	Non-Credit Characteristic
Credit - Degree Applicable	Credit Course.	No Value
Course Classification Code (CB11)	Funding Agency Category (CB23)	Cooperative Work Experience Education
Credit Course.  Variable Credit Course	Not Applicable.	Status (CB10)

**Course Student Hours** 

# **Weekly Student Hours**

#### In Class **Out of Class** Course Duration (Weeks) 18 Lecture Hours 3 Hours per unit divisor54 Laboratory Hours 0 Course In-Class (Contact) Hours **Activity Hours** 0 27 Lecture 0 Laboratory Activity 0 Total 27 Course Out-of-Class Hours

# Laboratory 0 Activity 0 Total 54

# **Time Commitment Notes for Students**

No value

! of

# **Faculty Load**

Extra Duties: 0

Faculty Load: 0

Lecture

# Units and Hours - Weekly Specialty Hours

Activity Name	Туре	In Class	Out of Class
	W-W-1		at the
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

#### Advisory

# ENGL85A - Foundations in Academic Litera

#### OR ENGL-85AC OR ENGL-85E Objectives

- · A. Use the reading process, at the pre-transfer level, to access a variety of texts.
- A3. Demonstrate competence in researching background information using, for example, internet searches and library databases.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### **Outcomes**

- · Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

# AND

#### Prerequisite

FIRE69A - First Responder Medical

#### Outcomes

- Examine the emergency medical service system, its function and legalities.
- Inspect and identify anatomical position, match body functions with body systems, major respiratory system organs, layers of skin, abdominal quadrants, major bones of upper and lower extremities, arterial and venous bleeding.
- Use the signs and symptoms of traumatic injuries to assess injuries and specify appropriate treatment.
- · Assess symptoms and assign treatment for medical emergencies.
- Assess and perform proper techniques associated with normal and high risk obstetrical emergencies.
- · Recognize special problems when identifying and treating pediatric trauma and medical patients.

#### **Entrance Skills**

Entrance Skills

Description

No value

Limitations on Enrollment

Limitations on Enrollment

Description

Must possess a current valid CPR card in Basic Life Support of Health Care Providers (or equivalent) as outlined by the American Heart Association.

# **Specifications**

Methods of Instruction

Methods of Instruction Lecture

 Rationale
 No value

 Methods of Instruction
 Other

 Rationale
 Other - Problem Solving

 Methods of Instruction
 Other

 Rationale
 Other - Role playing

 Methods of Instruction
 Other

 Rationale
 Other - Videos and slides

#### **Assignments**

## READING

1. Handouts

## WRITING

- 1. Complete student information sheets
- 2. Complete student notebooks

#### OUTSIDE

- 1. Read, review and study handouts
- 2. Practice manipulative skills

#### CRITICAL THINKING

- 1. The student will evaluate and assess patient status through scenarios.
- 2. The student will demonstrate proper treatment of ill or injured victims through scenarios.

Methods of Evaluation	Rationale			
Other	Other - Comprehensi	ve examinations		
Other	Other - Manipulative skills testing			
Equipment				
No Value				
Textbooks				
Author	Title	Publ <mark>ishe</mark> r	Date	ISBN
AAOS	Emergency Medical Responder	Jones and Bartlett	2012	
Other Instructional Materials				

No Value

# Materials Fee No value **Learning Outcomes and Objectives** Course Objectives No value **CSLOs** Expected SLO Performance: 70.0 Evaluate the emergency medical service system, its function and legalities. 151.05 Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Categorize anatomical position, match body functions with body systems, major respiratory system organs, layers of skin, abdominal quadrants, major bones of upper and lower extremities, arterial and venous bleeding. Expected SLO Performance: 70.0 ISLOS Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Expected SLO Performance: 70.0 Evaluate the signs and symptoms of traumatic injuries and specify appropriate treatment. Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information ISLOS Core ISLOs Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose. Computation - Use mathematical skills and various aspects of technology appropriate to the task Expected SLO Performance: 70.0 Evaluate symptoms and treatment for medical emergencies. 151 Os Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose. Computation - Use mathematical skills and various aspects of technology appropriate to the task Expected SLO Performance: 70.0 Differentiate, select and perform proper treatment techniques for normal and high risk obstetrical emergencies.

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

#### Outline

ISLOs

Core ISLOs

#### **Course Outline**

## I. Review of EMS System

A. Medical-legal aspects, i.e., duty to act, consent, good Samaritan

#### II. Review of Anatomy/Physiology

- A. Anatomical position
- B. Match body functions with body systems
- C. Major organs in the respiratory system
- D. Layers of skin
- E. Abdominal quadrants
- F. Major bones of upper and lower extremities
- G. Arterial and venous bleeding, control of bleeding
- H. Define and apply specific terms, i.e., posterior, midline, superior

#### III. Review of Initial Assessment/Patient Evaluation

- A. Size-up of an incident scene
- B. Primary and secondary survey of a patient

#### IV. Review of Diagnostic Signs

A. Pulse, respirations, blood pressure

#### V. Review of Trauma/Bandaging

- A. Eight basic groups of trauma i.e.
  - 1. Soft tissue injuries
  - 2. Head injuries
  - 3. Brain injuries
  - 4. Chest injuries
  - 5. Genitourinary
  - 6 Shock
- B. Bandaging techniques for various head, eye, and extremity injuries

## VI. Review of Medical emergencies

- A. Chest pain
- B. Conscious state,
- C. Respiratory distress
- D. Stroke
- E. Seizures
- F. Drug abuse

## VII. Review of Oxygen Therapy and adjuncts

- A. Hypoxia, apnea
- B. Oxygen hazards
- C. Correct oxygen therapy
- D. Airways
  - 1. Oropharyngeal
  - 2. Nasal pharyngeal
  - 3. Oxygen masks
  - 4. Cannulas
- E. Resuscitators
- F. Portable suction units
- G. Bag valve masks

# Exhibit Q



# Merced College Course Outline of Record Report

# FIRE71A: Fire Instructor I

#### General Information

Author:

- Bryan Donnelly

Course Code (CB01):

FIRE71A

Course Title (CB02):

Fire Instructor I

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000526282

Curriculum Committee Approval Date:11/20/2014

Board of Trustees Approval Date:04/05/2011

External Review Approval Date:02/07/2013

Course Description:

This course is designed for the fire company officer who conducts in-service training programs. The course provides a variety of methods and techniques to help personnel select, develop and organize material for in-service programs. Methods of evaluation and opportunity to apply the major principles of learning through demonstrations are stressed. The course is certified by the office of the California State Fire Marshal.

Submission Rationale:

Mandatory Revision

CTE 2 year review

Author:

No value

#### **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred: No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

Course is not a basic skills course.

Course is not a special class.

- Letter Grade Methods

Pass/No Pass

Allow students to gain Credit for	Prior Allowed Nu	mber of Retakes	Course Prior To College Level (CB21)
Learning (CPL)	0		No value
Credit for Prior Learning assessmen	t Petake Polic	y Description	
methods accepted	No value	y ocscription	Allow Students To Audit Course
No value	140 72.00		
Course Support Course Status (CB20	5)		
No value			
Associated Programs			
Course is part of a program (CB2	4)		
Associated Program	Award Type		Active
Fire Technology (CT)	Certificate of	f Achievement (16+ units)	2018U
Transferability & Can Ed	Ontions		
Transferability & Gen. Ed	. Options		
Course General Education Status	(CB25)		
No value			
Transferability (CB05)		Transferability S	Status
Not transferable		Not transferable	
· ·			
Units and Hours			
·			
Summary			
Minimum Credit Units (CB07)2.25			
Maximum Credit Units (CB06)2.25			
Total Course In-Class (Contact)	40.5		
Hours			
Total Course Out-of-Class	81		
Hours			
Total Student Learning Hours121.5			
Faculty Load	0		

Credit / Non-Credit Options

Course Credit Status (CB04)

No Value

Credit - Degree Applical	ble	Credit Course.		No Value
Course Classification Course.  Variable Credit Course.		Funding Agency Ca	itegory (CB23)	Cooperative Work Experience Education  Status (CB10)
Weekly Student		Sub-of-Class	Course Stude	
	In Class	Out of Class	Course Duration	
Lecture Hours	2.25	4.5	Hours per unit d	
Laboratory Hours	0	0	Course In-Class (	(Contact) Hours
Activity Hours	0	0	Lecture	40.5
			Laboratory	0
			Activity	0
			Total	40.5
			Course Out-of-C	lass Hours
			Lecture	81
			Laboratory	0
			Activity	0
			Total	81
Time Commitme	nt Notes for S	tudents		
Faculty Load			•	
			Foreign London	
Extra Duties: 0			Faculty Load: 0	
Units and Hours	- Weekly Spec	cialty Hours		
Activity Name		Туре	In Class	Out of Class

No Value

No Value

No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

## Advisory

#### ENGL85A - Foundations in Academic Litera

# OR ENGL-85AC OR ENGL-85E Objectives

- · A1. Make connections between course readings and prior knowledge.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of

#### **Outcomes**

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

# Prerequisite

### FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter for a certified fire protection department Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# **Entrance Skills**

Methods of Instruction

Entrance Skills	Description
No value	No value
Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value
Specifications	
Methods of Instruction	

Lecture

Rationale	NO VOICE
Methods of Instruction	Demonstration
Metrous of Instruction	
Rationale	No value
Methods of Instruction	Other
Rationale	Other - Video
	Other - vioeo
Methods of Instruction	
Methods of Instruction	Other
Rationale	Other - Role-playing
Assignments	
READING	
1. Text	
2. Handouts	
WRITING	
1. Prepare lessons plans	
Complete performance objectives	
Prepare course outlines     Complete an occupational analysis	
OUTSIDE	
Preparation of lesson plans	
2. Preparation of practice teaching demonstrations	
<ol><li>Reading and reviewing student handouts</li></ol>	
CRITICAL THINKING	and demonstrate the ability to present a well-organized teaching demonstration.
	plan, and present and evaluate the presentation of the prepared materials as well as the
presentations of other students.	,
Methods of Evaluation	Rationale
Class Participation	No value
Exams/Tests	No value
Other	Other - Written assignments
Other	Other - Demonstration
Equipment	
No Value	
Textbooks	

Publisher

Date

ISBN

Author

Title

Reeder, Forest F

Fire Service Instructor: Principles

and Practice

Jones and Bartlet

2014

2012

**IFSTA** 

Fire and Emergency Service

Instructor

International Fire

Service Training

Association (IFSTA)

California State Fire Marshal

Training Instructor 1A-Cognitive

Lesson Delivery

California State Fire Marshal 01-01-2010

Other Instructional Materials

No Value

**Materials Fee** 

No value

# **Learning Outcomes and Objectives**

**Course Objectives** 

A. Succesfully meet the requirements for certification as described by the California State Fire Marshal Office.

# **CSLOs**

Examine a variety of methods and techniques for training students in accordance with the latest concepts in vocational education.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Describe instructional materials appropriate for teaching manipulative lessons.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Apply major principles of learning through practice teaching demonstrations.

Expected SLO Performance: 70.0

Fire Technology

At a basic level apply the principles of fire technology.

Fire Technology (CT)

Demonstrate effective verbal and nonverbal communication skills.

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

# Outline

#### Course Outline

#### I. Orientation and Administrative Details

#### II. Reasons for Fire Instructor 1A

#### III. Methodology

- A. Utilization of the occupational analysis
- B. Development of a course outline
- C. Procedures used for the completion of a job breakdown
- D. Identification of instructional terms
- E. Concepts of leaning
- F. Introduction to levels of instruction
- G. Construction of behavior objectives
- H. Manipulative lesson planning
- I. Qualities of a good instructor
- J. Introduction to the psychology of learning
  - 1. Methods used to evaluate teaching demonstrations
  - 2. Teaching demonstrations

#### IV. Impact of EEO and AA

# V. The Role and Responsibilities of Instruction

# VI. Evaluation of topic and presentation effectiveness

# Exhibit R



# Merced College Course Outline of Record Report 06/28/2022

# FIRE71B: Fire Instructor II

#### General Information

Author.

· Bryan Donnelly

Course Code (CB01):

FIRE71B

Course Title (CB02):

Fire Instructor II

Cohort:

Fire Technology

**Proposal Start:** 

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000367433 Curriculum Committee Approval Date:11/17/2016 Board of Trustees Approval Date:01/18/2005 External Review Approval Date:11/03/2011

Course Description:

This course is designed for the fire company officer who conducts in-service training programs. The course provides instruction in the use of visual aids, test construction, and teaching demonstrations. The successful completion of this course and the State Fire Marshal's examination

will result in State certification.

Submission Rationale:

Mandatory Revision

CTE 2 year review

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

### **Course Development Options**

Basic Skill Status (CB08) Course Special Class Status (CB13) **Grade Options** Course is not a basic skills course. Course is not a special class. - Letter Grade Methods Pass/No Pass Course Prior To College Level (CB21) Allowed Number of Retakes Allow students to gain Credit for Prior Learning (CPL) No value 0 Credit for Prior Learning assessment Retake Policy Description methods accepted Allow Students To Audit Course No value No value Course Support Course Status (CB26) No value **Associated Programs** Course is part of a program (CB24) **Associated Program Award Type** Active Fire Technology (CT) Certificate of Achievement (16+ units) 2018U Transferability & Gen. Ed. Options Course General Education Status (CB25) No value Transferability (CB05) **Transferability Status** 

Not transferable

Not transferable

## **Units and Hours**

# Summary

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

Total Course In-Class (Contact) Hours 36

Total Course Out-of-Class

7

Hours

**Total Student Learning Hours** 108

Faculty Load	0			
Credit / Non-Credit (	Options			
Course Credit Status (CB04)		ourse Non Credit Categ CB22)		-Credit Characteristic
Credit - Degree Applicable		Credit Course.		
Course Classification C (CB11)		unding Agency Categor CB23)	y	Cooperative Work Experience Educatio Status (CB10)
Credit Course.		Not Applicable.		
Variable Credit Course				
Weekly Student Hou	rs	Cou	rse Student Ho	urs

Weekly Student	Hours		Course Student Hours	
	In Class	Out of Class	Course Duration (Weeks) 18	
Lecture Hours	2	4	Hours per unit divisor54	
Laboratory Hours	0	0	Course In-Class (Contact) Hours	
Activity Hours	0	0	Lecture	36
			Laboratory	0
			Activity	0
			Total	36
			Course Out-of-Class Hours	
			Lecture	72
			Laboratory	0
			Activity	0
			Total	72

# **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0 Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

#### Advisory

#### ENGL85A - Foundations in Academic Litera

#### OR ENGL-85AC OR ENGL-85E Objectives

- · A1. Make connections between course readings and prior knowledge.
- · A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### Outcomes

- · Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

## FIRE71A - Fire Instructor I

#### Outcomes

- Examine a variety of methods and techniques for training students in accordance with the latest concepts in vocational education.
- Describe instructional materials appropriate for teaching manipulative lessons.
- · Apply major principles of learning through practice teaching demonstrations.

#### **Objectives**

• A. Succesfully meet the requirements for certification as described by the California State Fire Marshal Office.

#### **Outcomes**

- · Examine a variety of methods and techniques for training students in accordance with the latest concepts in vocational education.
- Describe instructional materials appropriate for teaching manipulative lessons.
- · Apply major principles of learning through practice teaching demonstrations.

# **Entrance Skills**

Entrance Skills	Description
No value	No value
Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value

# **Specifications**

Methods of Instruction

Methods of Instruction

Rationale No value

Methods of Instruction Demonstration

Lecture

Rationale No value

Methods of Instruction Other

Rationale Other - Video

Methods of Instruction Other

Rationale Other - Role-playing

## **Assignments**

# READING

- 1. Text
- 2. Handouts

### WRITING

- 1. Prepare lessons plans
- 2. Complete performance objectives
- 3. Prepare course outlines
- 4. Complete an occupational analysis

# OUTSIDE

- 1. Preparation of lesson plans
- 2. Preparation of practice teaching demonstrations
- 3. Reading and reviewing student handouts

# CRITICAL THINKING

- 1. The student will be required to analyze teaching techniques and learning levels, and construct written lesson plans, tests, and evaluations.
- 2. The student will evaluate styles of teaching and apply the basic teaching principles to teaching demonstrations.
- 3. The student will also be required to evaluate the teaching demonstrations of other students.

 Methods of Evaluation
 Rationale

 Class Participation
 No value

 Exams/Tests
 No value

 Other
 Other - Written assignments

 Other
 Other - Demonstration

# Equipment

No Value

Textbooks				
Author	Title	Publisher	Date	ISBN
-	Fire and Emergency Services	California Office of	2010	
	Instructor	the State Fire Marshal		
	Contractor II Student	CCCTTC	2010	
-	Fire Instructor II Student Supplement	CFSTES	2010	
Reeder, Forrest F	Fire Service Instructor: Principles	Jones and Bartlet	2014	
	and Practice			
IFSTA	Fire and Emergency Services	IFSTA	2013	9780879394417
	Instructor			
Other Instructional Materials				
No Value				

# **Learning Outcomes and Objectives**

# **Course Objectives**

Materials Fee No value

No value

# **CSLOs**

Examine a variety of methods and techniques for training in accordance with the latest concepts in vocational education. Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate an appreciation of lifelong learning.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Prepare instructional materials appropriate for teaching technical lessons.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate an appreciation of lifelong learning.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

#### Develop various criteria and methods to evaluate teaching and learning efficiency.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate an appreciation of lifelong learning.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

#### Evaluate and apply major principles of learning through practice teaching demonstrations.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate an appreciation of lifelong learning.

Demonstrate effective verbal and nonverbal communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Examine the criteria for successfully completing the Fire Officer Certification and Fire Instructor I requirements.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

# Outline

#### **Course Outline**

#### I. Identifying the reasons for the Fire Instructor I-Module B course.

#### II. Methodology

- A. Course outline development
- B. Technical lesson plan components
- C. Levels of instruction
- D. Student behavioral objectives
- E. Technical lesson plan development
- F. Introduction to instructional aids
- G. Utilization of instructional aids
- H. Introduction to information and activity sheets
- I. Managing the classroom environment
- J. Student application techniques
- K. Methods of technical lesson plan delivery
- L. Introduction to evaluation and testing
- M. Utilization of evaluation tools
- N. Introduction to test construction
- O. Methods used to evaluate teaching demonstrations
  - 1. Teaching demonstrations
  - 2. Evaluating teaching demonstrations

#### P. Administrative details

- 1. Quizzes
- 2. Daily review
- 3. Student assistance

# III. Review program and examine objective success.

#### IV. Certification Exam

# Exhibit S



# Merced College Course Outline of Record Report 06/28/2022

# FIRE72A: Fire Command I - Module A

## **General Information**

Author:

- Gabriela Garcia

Course Code (CB01):

FIRE72A

Course Title (CB02):

Fire Command I - Module A

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:Yes

Course Control Number (CB00) :CCC000345574

Curriculum Committee Approval Date:11/17/2016

Board of Trustees Approval Date:11/20/2012

External Review Approval Date:11/01/2012

Course Description:

This course is designed to provide the fire company officer with information and experience in

command and control techniques at the scene of an emergency.

Submission Rationale:

No value

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

**Course Development Options** 

Basic Skill Status (CB08) Course Special Class Status (CB13) **Grade Options** Course is not a basic skills course. Course is not a special class. Letter Grade Methods Pass/No Pass Course Prior To College Level (CB21) Allowed Number of Retakes Allow students to gain Credit for Prior Learning (CPL) No value Credit for Prior Learning assessment Retake Policy Description methods accepted Allow Students To Audit Course No value No value Course Support Course Status (CB26) No value **Associated Programs** Course is part of a program (CB24) Active **Award Type Associated Program** 2018U Certificate of Achievement (16+ units) Fire Technology (CT) Transferability & Gen. Ed. Options Course General Education Status (CB25) No value Transferability (CB05) **Transferability Status** 

Not transferable

Not transferable

# **Units and Hours**

# Summary

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

Total Course In-Class (Contact)

40.5

75.96

Hours

Total Course Out-of-Class

Hours

**Total Student Learning Hours**116.46

of 10

0 **Faculty Load** Credit / Non-Credit Options Course Non Credit Category Non-Credit Characteristic **Course Credit Status** (CB04) (CB22) No Value Credit Course. Credit - Degree Applicable Course Classification Code **Funding Agency Category** Cooperative Work Experience Education (CB11) (CB23) Status (CB10) Credit Course. Not Applicable. Variable Credit Course

**Course Student Hours Weekly Student Hours Out of Class** Course Duration (Weeks) 18 In Class 4.22 Hours per unit divisor54 Lecture Hours 2.22 0 Course In-Class (Contact) Hours Laboratory Hours 0 40.5 0 **Activity Hours** 0 Lecture 0 Laboratory Activity 0 40.5 Total Course Out-of-Class Hours Lecture 75.96 0 Laboratory Activity 0 Total 75.96

# **Time Commitment Notes for Students**

No value

**Faculty Load** 

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name Type In Class Out of Class

No Value No Value No Value No Value

Course Outline of Record Report

## Prerequisite

## FIRE73A - Fire Inspector 1A

#### **Objectives**

A. The students will learn the responses to a variety of fire prevention situations in a professional and effective manner. B. The student will
be prepared as the first-level fire officer to deal with the responsibilities of fire prevention in his/her jurisdiction

#### Outcomes

- · Identify the basic fire prevention functions of a fire department.
- Evaluate occupancies and building preparation and records management in fire prevention efforts.
- Identify principles and procedures used to correct fire hazards.

#### AND

## Prerequisite

FIRE73B - Fire Inspector 1B

#### **Objectives**

A. The student will have an understanding for performing basic fire prevention efforts at the level of company officer and fire prevention
personnel. B.The course will prepare first-level fire officers to deal with the responsibilities of fire prevention in his/her jurisdiction.

# Outcomes

- Demonstrate an understanding of responsibility for fire prevention inspections and related activities.
- · Examine principles and procedures used to correct fire hazards.
- · Examine the authority for fire prevention inspections and related activities.

## **Entrance Skills**

Entrance Skills	Description
No value	No value
Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value
Specifications	
Methods of Instruction	
Methods of Instruction	Lecture

No value

Rationale

 Methods of Instruction
 Demonstration

 Rationale
 No value

 Methods of Instruction
 Other

 Rationale
 Other - Video

 Methods of Instruction
 Other

 Rationale
 Other - Role-playing

#### **Assignments**

#### READING

1. Handouts

#### WRITING

- 1. Prepare a tactical response plan for a given emergency situation.
- 2. Prepare a pre-incident plan for a assigned building.

## OUTSIDE

1. Reading and reviewing student handouts

## CRITICAL THINKING

- 1. The student will identify the elements of effective emergency response command.
- 2. The student will analyze emergency situations relative to resource needs.
- 3. The student will demonstrate through given scenarios the proper procedures for managing various emergency situations.

Methods of Evaluation Rationale

Class Participation No value

Exams/Tests No value

#### Equipment

Handouts, student forms and checklists.

#### **Textbooks**

Author	Title	Publisher	Date	ISBN
California State Fire Marshal	Fire Command 1A: Command Principles for Company Officers, Student Manual	California State Fire Marshal	01-01-2000	
Calfornia State Fire Marshal	Command 1A: Structure Fire Command Operations for the Company Officer – California Edition	Delmar	2011	

# Other Instructional Materials No Value Materials Fee No value Learning Outcomes and Objectives Course Objectives No value **CSLOs** Expected SLO Performance: 70.0 Define at the introductory level human resource management. Fire Technology At a basic level apply the principles of fire technology. Fire Technology (CT) ISLOS Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement Expected SLO Performance: 70.0 Analyze the organizational structure used within the fire service, including duties and responsibilities. Fire Technology At a basic level apply the principles of fire technology. Fire Technology (CT) ISLOS Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information Core ISLOs Evaluate the communication skills appropriate for reporting on conditions and managing resources at an emergency scene. Expected SLO Performance: 70.0 At a basic level apply the principles of fire technology. Fire Technology Fire Technology (CT) Demonstrate effective verbal and nonverbal communication skills. Demonstrate effective written communication skills.

Communication out in gauge and that yellow modes of expression

Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

Design a pre-fire plan in order to utilize that information when responding to an emergency scene.

Expected SLO Performance: 70.0

151 Os

Core ISLOs

Fire TechnologyAt a basic level apply the principles of fire technology.

of 10 6/28/2022, 8:39 AM

Fire Technology (CT)

Demonstrate effective verbal and nonverbal communication skills.

Demonstrate effective written communication skills.

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Identify the methods to size-up emergency situations; and the strategies, tactics and methods necessary to manage those situations.

Expected SLO Performance: 70.0

Fire Technology

At a basic level apply the principles of fire technology.

Fire Technology (CT)

Demonstrate effective verbal and nonverbal communication skills.

Demonstrate effective written communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical

eras and the important of community involvement

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote

physical, mental and emotional well being.

## Outline

#### **Course Outline**

#### I. Introduction to Command

- A. Orientation and Administration
- B. Learning Process
- C. Fire Command Overview

#### II. Fire Behavior

- A. Fire Chemistry
- B. Fire phases
- C. Effects of time
- D. Fire behavior within structures

# III. Fire Control Concepts

- A. Extinguishing Agents
- B. Water application
- C. Protection systems

#### IV. Pre-Fire Planning

- A., Building construction
- B. Occupancy types
- C. Fire data
  D. Resources
  - 1. Local resources
    - 2. Federal resources

# V. First on Scene

- A. Fireground safety
- B. Size-up
- C. Strategy, tactics and methods
- D. Report on conditions
- E. Role of the first-In officer
- F. Company operations

- G Determining resources requirements
- H. Apparatus placement
- I. Initial fire attack

#### VI. Management Overview

- A.. The fire service
- B. The company officer
- C. Pressure of command
- D. Performance standards
- E. Levels of emergency
- F. Decision making
- G. Communications
- H. Management by objectives
- I. Division of fire fighting
- J. Command/Control components

#### **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

· lecture and all outside activities fully online

Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- discussion board activities
- quiz activities
- supplemental instructional video, such as YouTube, TedTalks, and PBS

Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- · work with the College Instructional Designer
- work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- weekly lectures
- · discussion opportunities between students weekly
- · student-to-student activities such as group work
- regular assessment: both formative and summative

- · regular feedback weekly
- re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- pre-class 'Welcome Letter'
- · weekly lectures
- weekly announcement using the LMS (Canvas)
- · online orientation non-mandatory
- timely feedback within the LMS (Canvas) within 72-hours of the due date
- · midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- periodic online workshops non-mandatory

Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · weekly discussion boards robust posts and replies
- LMC (Canvas) email

Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu

- select all that apply)
- The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor will be using a 'Blueprint' course created by Merced College.

Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down

# menu - select all that apply)

- · Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in comment box)

Specify "Other" here:

None completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· department discussions on approving DE for this course (specify date(s) in comment box)

Specify "Other" here:

4/25/20

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

· Yes

# **Exhibit T**



# Merced College Course Outline of Record Report 06/28/2022

# FIRE72B: Fire Command I - Module B

# **General Information**

Author:

· Gabriela Garcia

Course Code (CB01):

FIRE72B

Course Title (CB02):

Fire Command I - Module B

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:Yes

Course Control Number (CB00) :CCC000367090

Curriculum Committee Approval Date:09/17/2015

Board of Trustees Approval Date:01/18/2005

External Review Approval Date:10/06/2011

Course Description:

This course is designed to provide the fire company officer with information and experience in

command and control techniques at the scene of a hazardous materials emergency.

Submission Rationale:

No value

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

• Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

**Course Development Options** 

Basic Skill Status (CB08)	Course Special Class Status (CB13)	Grade Options
Course is not a basic skills course.	Course is not a special class.	Letter Grade Methods     Pass/No Pass
Allow students to gain Credit for Prior	Allowed Number of Retakes	Course Prior To College Level (CB21)
Learning (CPL)	0	No value
Credit for Prior Learning assessment	Retake Policy Description	
methods accepted  No value	No value	Allow Students To Audit Course
Course Support Course Status (CB26)		
No value		
Associated Programs		
Course is part of a program (CB24)		
Associated Program	Award Type	Active
Fire Technology (CT)	Certificate of Achievement (16+ units)	2018U
Transferability & Gen. Ed. Option	ıs	
Course General Education Status (CB25)	,	
No value		
Transferability (CB05)	Transferability State	us
Not transferable	Not transferable	

# **Units and Hours**

# Summary

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

Total Course In-Class (Contact) 40.5

Hours

Total Course Out-of-Class 75.96

Hour

**Total Student Learning Hours**116.46

Faculty Load	0			
Credit / Non-Cre	edit Options			
Course Credit Status	(CB04)	Course Non Credi	t Category (CB22)	Non-Credit Characteristic
Credit - Degree Applica	able	Credit Course.		No Value
Course Classification	Code (CB11)	Funding Agency C	Category (CB23)	Cooperative Work Experience Education Status (CB10)
Credit Course.  Variable Credit Cou	urse	Not Applicable.		Jidda (CD10)
Weekly Student	Hours		Course Stude	ent Hours
	In Class	Out of Class	Course Duration	n (Weeks)18
Lecture Hours	2.22	4.22	Hours per unit	divisor54
Laboratory Hours	0	0	Course In-Class	(Contact) Hours
Activity Hours	0	0	Lecture	40.5
			Laboratory	0
			Activity	o
			Total	40.5
			Course Out-of-	Class Hours
			Lecture	
				75.96
			Laboratory	0
			Activity <b>Total</b>	0 75.96
			lotai	75.30
Time Commitme	ent Notes for S	Students		
No value				
Faculty Load				
Extra Duties: 0			Faculty Load: 0	
Units and Hours	- Weekly Spe	cialty Hours		
Activity Name		Туре	In Class	Out of Class
No Value		No Value	No Value	No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

# ENGL85A - Foundations in Academic Litera

# OR ENGL-85AC OR ENGL-85E Objectives

- · A1. Make connections between course readings and prior knowledge.
- · A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### Outcomes

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

FIRE72A - Fire Command I - Module A

#### Outcomes

- Define at the introductory level human resource management.
- Analyze the organizational structure used within the fire service, including duties and responsibilities.
- Evaluate the communication skills appropriate for reporting on conditions and managing resources at an emergency scene.
- · Design a pre-fire plan in order to utilize that information when responding to an emergency scene.
- · Identify the methods to size-up emergency situations; and the strategies, tactics and methods necessary to manage those situations.

# **Entrance Skills**

Entrance Skills	Description	
No value	No value	
Limitations on Enrollment		
Limitations on Enrollment	Description	
No value	No value	
Specifications		
Methods of Instruction		
Methods of Instruction	Lecture	
Rationale	No value	

Methods of Instruction

Demonstration

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Video

Methods of Instruction

Other

Rationale

Other - Role-playing

# **Assignments**

#### READING

- 1. Text
- 2. Supplementary handout materials

#### WRITING

- 1. Preplanning programs
- 2. Evacuation plans

#### OUTSIDE

- 1. Touring industrial areas in order to evaluate potential hazardous materials emergencies.
- 2. Research liability issues relative to command situations
- 3. Reading and reviewing text
- 4. Preparing reports

# CRITICAL THINKING

1. The student will identify and classify hazardous materials and analyze them in order to implement a proper command response

Methods of Evaluation	Rationale
Class Participation	No value
Exams/Tests	No value
Other	Other - Reports

# Equipment

No Value

# **Textbooks**

Author	Title	Publisher	Date	
California State Fire Marshal	Student Manual Fire Command	California State Fire Marshal	1998	

# Other Instructional Materials

No Value

ISBN

24-	4	-1-	 _
MA	Tet	ials	

No value

# Learning Outcomes and Objectives

**Course Objectives** 

No value

**CSLOs** 

Understand the physical properties of hazardous materials.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

ISLOs

Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Evaluate and summarize state and federal legislation relative to hazardous materials responder liability issues.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

ISLOs

Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Distinguish hazardous materials response resources, reference materials, data bases, and product information.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Categorize hazardous materials containers typically encountered during storage, transportation, and industrial use incidents.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication skills.

Demonstrate effective written communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Assess and apply first-in hazardous materials incident command techniques under simulation conditions.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology (CT)

At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication skills.

Demonstrate effective written communication skills.

Demonstrate the ability to evaluate and adhere to ethics and compassionate treatment of patients and victims.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

# Outline

#### Course Outline

#### I. Review of incident command system

#### II, Fire Command IA 1FT 72A review

#### III. Multi-casualty incidents

- A. Components of triage and START
- B. ICS and EMS multi-casualty
- C. ICS-MCI implementation overview

#### IV. Hazardous materials incidents

- A. Hazardous materials overview
- B. Hazardous materials properties
- C. Toxicology
- D. Site control I work zones
- E. Evacuation considerations
- F. Decision-making process
- G. ICS and the hazardous materials incident
  - 1. State legislation
  - 2. Federal legislation
  - 3. Liability issues
  - 4. Preplanning
  - 5. Protective clothing limitations
  - 6. Command post and staging areas
  - 7. Coordinating resources

# V. Hazardous materials data bases

- A. DOT guide books
- B. Shipping papers
- C. BLEVES D. Vessels
- E. Containers
- F. Railroads G. Pesticides
- H. Protective environment

# VI. Wildland fire incidents

- A. Factors affecting wildland fires
- B. Defensive and offensive strategies in wildland fire fighting
- C. Direct and indirect attacks
- D. Structure protection and triage in wildland fires
- E. Wildland fire safety

#### VII. Containment Techniques

- A. Decontamination
- B. Evacuation decision-making

#### **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu - select all that apply)

· lecture and all outside activities fully online

#### Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition andApplication as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- · lecture video
- · discussion board activities
- quiz activities
- supplemental instructional video, such as YouTube, TedTalks, and PBS

# Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online coursewill offer:

- weekly lectures
- · discussion opportunities between students weekly
- student-to-student activities such as group work
- · regular assessment: both formative and summative
- regular feedback weekly
- · re-teaching opportunities

#### Specify "Other" for Response #3 here:

No Value

# Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- · weekly lectures
- · weekly announcement using the LMS (Canvas)
- · online orientation non-mandatory
- timely feedback within the LMS (Canvas) within 72-hours of the due date

- · midterm and end-of-course surveys
- College email respond within 24-hours M-F
- · LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- periodic online workshops non-mandatory

#### Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – selectall that apply)

- · weekly discussion boards robust posts and replies
- LMC (Canvas) email

#### Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu

- select all that apply)
- . The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor will be using a 'Blueprint' course created by Merced College.

# Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meetsregular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-downmenu – select all that apply)

- · Dean of the Cohort/Department
- · Faculty teaching the course

#### Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent withlocal district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in comment box)

# Specify "Other" here:

None completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

• department discussions on approving DE for this course (specify date(s) in comment box)

Specify "Other" here:

4/25/20

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

Yes

# Exhibit U



# Merced College Course Outline of Record Report 06/28/2022

# FIRE73A: Fire Inspector 1A

#### **General Information**

Author.

Joe Faculty

Course Code (CB01):

FIRE73A

Course Title (CB02):

Fire inspector 1A

Cohort:

Fire Technology

Proposal Start:

20185

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000380657 Curriculum Committee Approval Date:10/05/2017 Board of Trustees Approval Date:01/18/2005

External Review Approval Date:10/05/2017

Course Description:

This course provides students with a basic knowledge of the roles and responsibilities of a Fire Inspector I including legal responsibilities and authority, codes and standards, the inspection process, confidentiality and privacy requirements, and ethical conduct, and administrative tasks including preparing inspection reports, recognizing the need for a permit or plan review, investigating common complaints, and participating in legal proceedings.

....godin

Submission Rationale:

No value

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

· Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)	Course Special Class Status (CB13)	<b>Grade Options</b>
Course is not a basic skills course.	Course is not a special class.	<ul><li>Letter Grade Methods</li><li>Pass/No Pass</li></ul>
Allow students to gain Credit for Prior Learning (CPL)	Allowed Number of Retakes	Course Prior To College Level (CB21) No value
Credit for Prior Learning assessment methods accepted  No value	Retake Policy Description  No value	Allow Students To Audit Course
Course Support Course Status (CB26) No value		
Associated Programs		
Course is part of a program (CB24)		
Associated Program	Award Type	Active
Fire Technology (CT)	Certificate of Achievement (16+ units)	2018U

# Transferability & Gen. Ed. Options

Course General Education Status (CB25)

No value

Transferability (CB05)

Not transferable

**Transferability Status** 

Not transferable

# **Units and Hours**

# **Summary**

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

Total Course In-Class (Contact)

Hours

Total Course Out-of-Class

79.92

40

Hours

**Total Student Learning Hours**119.92

**Faculty Load** 

0

Credit / Non-Credit Options Course Credit Status Course Non Credit Non-Credit Characteristic (CB04) Category (CB22) No Value Credit - Degree Applicable Credit Course. Course Classification **Funding Agency Category** Cooperative Work Experience Education Code (CB11) (CB23) Status (CB10) Credit Course. Not Applicable. Variable Credit Course

<b>Weekly Student</b>	Hours		Course Student Hor	urs
	In Class	Out of Class	Course Duration (Weeks	3)18
Lecture Hours	2.22	4.44	Hours per unit divisor54	
Laboratory Hours	0	0	Course In-Class (Contact	t) Hours
<b>Activity Hours</b>	0	0	Lecture	40
			Laboratory	0
			Activity	0
			Total	40
			Course Out-of-Class Hou	ırs
			Lecture	
				79.92
			Laboratory	0
			Activity	0
			Total	79.92

# **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0 Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name Type In Class Out of Class

No Value No Value No Value No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E

# AND

# Prerequisite

FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter for a certified fire protection department.

# **Entrance Skills**

**Entrance Skills** 

Description

No value

No value

# Limitations on Enrollment

**Limitations on Enrollment** 

Description

No value

No value

# **Specifications**

Methods of Instruction

Methods of Instruction

Lecture

Rationale

No value

Methods of Instruction

Demonstration

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Video

# **Assignments**

# READING

- 1. Text
- 2. Handouts

#### WRITING

1. Fire prevention analysis report

#### OUTSIDE

1. Reading and reviewing student handouts

#### **CRITICAL THINKING**

- 1. Utilizing problem-solving techniques in relation to code enforcement; analyze fire prevention needs and complete written assignments.
- 2. Complete written assignments that demonstrate the ability to document findings involving fire code infractions and/or violations.

Methods of Evaluation	Rationale
Class Participation	No value
Exams/Tests	No value
Other	Other - Written assignments

# Equipment

California Building Code (International Code Council, 2013 edition, ISBN: 9781609834579) 2013 California Code of Regulations (CCR) Title 19 California Fire Code (with Title 19 excerpts) (International Code Council, 2013 edition, ISBN: 9781609834609)

# Textbooks

Author	Title	Publisher	Date	ISBN
-Brett Lacey and Paul Valentine	Fire Prevention Applications for the Company Officer	California Department of Forestry & Fire Protection Office of State Fire Marshal/State Fire Training	2010	
n/a	California Fire Code (with Title 19 excerpts)	International Code Council	01-01-2013	

# Other Instructional Materials

Description	Fire Inspection and Code Enforcement (IFSTA, 7th edition, ISBN: 9780879393489) Or Fire Inspector: Principles and Practice (International Association of Fire Chiefs, 1st ed., ISBN: 9780763749392)
Author	
Citation	Fire Inspector 1A
Description	Fire Technology and Fire Engineering journals
Author	No value
Citation	No value

#### Materials Fee

No value

# Learning Outcomes and Objectives

#### **Course Objectives**

A. The students will learn the responses to a variety of fire prevention situations in a professional and effective manner. B. The student will be prepared as the first-level fire officer to deal with the responsibilities of fire prevention in his/her jurisdiction

#### **CSLOs**

Identify the basic fire prevention functions of a fire department.

Expected SLO Performance: 70.0

Fire Technology

At a basic level apply the principles of fire technology.

Fire Technology (CT)

**ISLOs** Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical

eras and the important of community involvement

Evaluate occupancies and building preparation and records management in fire prevention efforts.

Expected SLO Performance: 70.0

Fire Technology

Fire Technology

At a basic level apply the principles of fire technology.

(CT)

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical

eras and the important of community involvement

Identify principles and procedures used to correct fire hazards.

Expected SLO Performance: -

# Outline

#### **Course Outline**

# I. State fire training

A. Mission Statement

B. California fire service training and education system

# II. Orientation and administration

A. Terminology relating to responsibility and authority

B. Legally established responsibilities and empowerment

1. State adopted regulations

# III, Responsibilities of the inspector

A. Components of the California Fire Code

- B. Understanding reading and using the uniform fire codes
- C. Legally established responsibilities and empowerment
- D. Code Development Process

# N. The Inspection Process

- A. Factors relating to life safety
- B. General fire inspection practices
- C. Procedures for correcting fire hazards and modification requirements
- D. Fire drills and emergency evacuation
- E. Handling fire prevention complaints

# V. Confidentiality and Privacy Requirements

- VI. Ethical Conduct
- VII. Preparing Inspection Reports
- VIII. Recognizing the need for a permit
- IX. Recognizing the Need for Plan Review
- X. Investigating Common Complaints
- XI. Participating in Legal Proceedings

# Exhibit V



# Merced College Course Outline of Record Report 06/28/2022

# FIRE73B: Fire Inspector 1B

#### **General Information**

Author

Joe Faculty

Course Code (CB01):

FIRE73B

Course Title (CB02):

Fire Inspector 1B

Cohort:

Fire Technology

Proposal Start:

20185

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Advanced Occupational

Distance Education Approved:No

Course Control Number (CB00):CCC000364666 Curriculum Committee Approval Date: 10/05/2017 Board of Trustees Approval Date:01/18/2005 External Review Approval Date: 10/05/2017

Course Description:

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector I including building construction, occupancy classifications, occupancy load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures.

Submission Rationale

No value

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

Course is not a basic skills course.

Course is not a special class.

Letter Grade Methods

- Pass/No Pass

Allow students to gain Credit for Prior Learning (CPL)

**Allowed Number of Retakes** 

Course Prior To College Level (CB21)

0 No value **Retake Policy Description** Credit for Prior Learning assessment ☐ Allow Students To Audit Course No value methods accepted No value Course Support Course Status (CB26) No value **Associated Programs** Course is part of a program (CB24) **Associated Program Award Type** Active 2018U Certificate of Achievement (16+ units) Fire Technology (CT)

# Transferability & Gen. Ed. Options

# Course General Education Status (CB25)

No value

Transferability (CB05)

Not transferable

**Transferability Status** 

Not transferable

# **Units and Hours**

# Summary

Minimum Credit Units (CB07)2

Maximum Credit Units (CB06)2

**Total Course In-Class (Contact)** 

Hours

40

**Total Course Out-of-Class** 

79.92

Hours

**Total Student Learning Hours**119.92

**Faculty Load** 

0

# **Credit / Non-Credit Options**

Course Credit Status (CB04)

Course Non Credit Category (CB22)

Non-Credit Characteristic

Credit - Degree Applicable

Credit Course.

No Value

Course Classification C	ode (CB11)	Funding Agency Ca	tegory (CB23)	Cooperative Work Experience Education
Credit Course.		Not Applicable.		Status (CB10)
Variable Credit Cour	rse			
Weekly Student	Hours		Course Stude	ent Hours
	In Class	Out of Class	Course Duratio	n (Weeks)18
Lecture Hours	2.22	4.44	Hours per unit	divisor54
Laboratory Hours	0	0	Course In-Class	(Contact) Hours
Activity Hours	0	0	Lecture	40
			Laboratory	0
			Activity	0
			Total	40
		,	Course Out-of-	Class Hours
			Lecture	
				79.92
			Laboratory	0
			Activity	0
			Total	79.92
Time Commitme	nt Notes for S	Students		
No value				
		,		
Faculty Load				
Extra Duties: 0			Faculty Load: 0	
,	,			•
Unite and Hause	Wookly Sno	ocialty Hours		
Units and Hours	- weekly Spe	cially Hours		
Activity Name		Туре	In Class	Out of Class
No Value		No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E

AND

# Prerequisite

FIRE73A - Fire Inspector 1A

# **Entrance Skills**

Entrance Skills Description

No value No value

# **Limitations on Enrollment**

Limitations on Enrollment Description

No value No value

# **Specifications**

Methods of Instruction

Methods of Instruction Lecture

Rationale No value

Methods of Instruction Demonstration

Rationale No value

Methods of Instruction Other

Rationale Other - Video

#### Assignments

# READING

1. Text

2. Handouts

# WRITING

1. Fire prevention analysis report

# OUTSIDE

1. Reading and reviewing student handouts

# CRITICAL THINKING

- 1. Utilizing problem-solving techniques in relation to code enforcement, analyze fire prevention needs.
- 2. Complete written assignments that demonstrate the ability to document findings involving fire code infractions and/or violations.

3. Examine deficiencies and develop corrective actions to address violations and infractions.

Methods of Evaluation	Rationale
Class Participation	No value
Exams/Tests	No value
Other	Other - Written assignments

# Equipment

California Building Code (International Code Council, 2013 edition, ISBN: 9781609834579

Textbooks Author	Title	Publisher	Date	ISBN
International Code Council	California Fire Codes (CFC)	International Fire Code Institute	2013	
IFSTA	Fire Inspection and Code Enforcement	IFSTA	2011	
Other Instructional Materials				
<b>Description Author</b>	Student Handouts			
Ċitation	Fire Inspector 1B		,	

# **Learning Outcomes and Objectives**

**Course Objectives** 

Materials Fee No value

A. The student will have an understanding for performing basic fire prevention efforts at the level of company officer and fire prevention personnel. B.The course will prepare first-level fire officers to deal with the responsibilities of fire prevention in his/her jurisdiction.

**CSLOs** 

Demonstrate an understanding of responsibility for fire prevention inspections and related activities.

Expected SLO Performance: -

Examine principles and procedures used to correct fire hazards.

Examine the authority for fire prevention inspections and related activities.

Expected SLO Performance: -

Expected SLO Performance: -

# Outline

**Course Outline** 

- I. Orientation and Administration
- II. Fire Marshal Certification Process
- III. Verifying Construction Type for an Addition or Remodel
- V. Identifying Occupancy Classifications for a Single-use Occupancy
- VI. Computing the Allowable Occupant Load of a Single-use Occupancy
- VII. Inspecting Means of Egress Elements
- VIII. Recognizing Hazardous Conditions
- IX. Recognizing Hazardous Fire Growth Potential in a Building or Space

# Exhibit W



# Merced College Course Outline of Record Report

# FIRE75: Fire Management I- Management for Company Officers

# **General Information**

Author

Gabriela Garcia

Course Code (CB01):

FIRE75

Course Title (CB02):

Fire Management I- Management for Company Officers

Cohort:

Fire Technology

**Proposal Start:** 

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

Clearly Occupational

Distance Education Approved:Yes

Course Control Number (CB00):CCC000368866 Curriculum Committee Approval Date:10/15/2015 Board of Trustees Approval Date:01/18/2005 External Review Approval Date:11/03/2011

Course Description:

This course will provide instruction to improve the student's managerial effectiveness and will require demonstration of growth and development in the use of managerial skills. The course will

also stress resource identification and utilization.

Submission Rationale:

No value

Author.

No value

# **Faculty Requirements**

Master Discipline Preferred:

- Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

Course is not a basic skills course.

Course is not a special class.

Allowed Number of Retakes

- Letter Grade Methods

· Pass/No Pass

Allow students to gain Credit for Prior Learning (CPL)

Course Prior To College Level (CB21)

No value

\		
Credit for Prior Learning assessment	Retake Policy Description	
methods accepted	No value	Allow Students To Audit Course
No value		
Course Support Course Status (CB26)		
No value		
Associated Programs		
Course is part of a program (CB24)		
Associated Program	Award Type	Active
Fire Technology (CT)	Certificate of Achievement (16+ units)	2018U
Transferability & Gen. Ed. Options		
Course General Education Status (CB25)		
No value		
Transferability (CB05)	Transferability Status	:
· Not transferable	Not transferable	
,		
Units and Hours		
Summary		
Minimum Credit Units (CB07)2		
Maximum Credit Units (CB06)2		
Total Course In-Class (Contact) 40 Hours		

# Total Student Learning Hours119.92

**Total Course Out-of-Class** 

Hours

Faculty Load

# Credit / Non-Credit Options

Course Credit Status (CB04)

Course Non Credit Category (CB22)

Non-Credit Characteristic

Credit - Degree Applicable

Credit Course.

79.92

0

No Value

Course Classification Code (CB11)

		· anding righting an	regery (CDED)	Cooperative Work Experience Education
Credit Course.		Not Applicable.		Status (CB10)
Variable Credit Cou	irse			
Weekly Student	Hours		Course Stude	ent Hours
	In Class	Out of Class	Course Duration	n (Weeks)18
Lecture Hours	2.22	4.44	Hours per unit	divisor54
Laboratory Hours	0	0	Course In-Class	(Contact) Hours
<b>Activity Hours</b>	0	0	Lecture	40
			Laboratory	0
			Activity	0
			Total	40
			Course Out-of-0	Class Hours
			Lecture	
				79.92
			Laboratory	0
			Activity	0
			Total	79.92

Funding Agency Category (CB23)

# **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name	Туре	In Class	Out of Class
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E Objectives

- · A1. Make connections between course readings and prior knowledge.
- A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of

texts.

#### Outcomes

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

#### FIRE30 - Fire Protection Organization

Or current volunteer, paid call, or seasonal or full-time firefighter for a certified fire protection department Outcomes

- Distinguish between the educational requirements, duties, and information sources for various occupations in fire protection.
- Categorize the basic components of a fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread
  and fire behavior, and its effects on environment, at a basic level.
- Identify the various types of public and private fire protection equipment and systems and describe the purpose and scope of their activities, at a basic level.
- Examine fire fighting strategy and tactics using the types of common fire department apparatus, equipment, and personal safety equipment, at a basic level.

# **Entrance Skills**

Entrance Skills	Description
No value	No value
Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value
Specifications	
Methods of Instruction	
Methods of Instruction	Lecture
Rationale	No value
Methods of Instruction	Demonstration
Rationale	No value

 Methods of Instruction
 Other

 Rationale
 Other - Video

 Methods of Instruction
 Other

 Rationale
 Other - Role Playing

#### **Assignments**

# READING

- 1. Text
- 2. Handouts

# WRITING

- 1. Class notes
- 2. Management report forms

# OUTSIDE

- 1. Reading and reviewing student handouts and notes
- 2. Develop a resource list applicable to fire management/supervision

# CRITICAL THINKING

- 1. Through group exercises and written assignments, the student will demonstrate his/her ability to identify and implement a variety of management/supervision styles.
- 2. Through class participation and oral exercises, the student will identify the resources required and evaluate the effective utilization of resources in problem solving exercises.

Rationale
No value
No value
Other - Written assignments

# Equipment

Student handouts

# Textbooks

Author	Title	Publisher	Date	ISBN
n/a	Fire Management 1: Management and Supervision for Company Officers Student	California Department of Forestry and Fire	01-01-2000	
	Manual	Protection Office of State Fire Marshal/State Fire Training		
California State Fire Marshal	Fire and Emergency Services Company Officer	California State Fire Marshal	2000	

Other i	Instructional	Materia	S
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No Value

#### Materials Fee

No value

# **Learning Outcomes and Objectives**

# Course Objectives

No value

#### **CSLOs**

Analyze and summarize how internal and external influences impact the company officer and how the company officer can effectively deal with these influences.

Expected SLO Performance: 70.0

Fire Technology Fire Technology (CT) At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication

skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Examine an overview of supervision and management concepts, practices, and theories.

Expected SLO Performance: 70.0

Fire Technology Fire Technology (CT) At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication

skills. Demonstrate effective written communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and

purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Analyze and summarize the advantages, disadvantages, and effects of various recognized styles of leadership and leadership and leadership profiles.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology
(CT)

At a basic level apply the principles of fire technology.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and

purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Analyze the basic supervisorial and managerial skills required in decision making, delegating, personnel motivation, communicating, time management, resource management, record keeping, team building, disciplinary functions, and dealing with change and stress.

Expected SLO Performance: 70.0

Fire Technology Fire Technology (CT) At a basic level apply the principles of fire technology.

Demonstrate effective written communication skills.

ISLOs Core ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and

purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

Evaluate and provide examples of the following techniques used by supervisors in managing personnel: conducting interviews, counseling, controlling work activities, goal setting, evaluating, and promoting affirmative action.

Expected SLO Performance: 70.0

Fire Technology
Fire Technology
(CT)

At a basic level apply the principles of fire technology.

Demonstrate effective verbal and nonverbal communication

skills. Demonstrate effective written communication skills.

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Communication - Use language and non-verbal modes of expression appropriate to the audience and

purpose.

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

# Outline

#### **Course Outline**

# I. Introduction

- A. Orientation and Administration
  - B. Introduction to Management and Supervision
  - C. Basic Theories and Principles of Management
    - 1. Leadership styles and traits
    - 2. Introduction to leader match
    - 3. Methods of changing situational control

# II. Supervision

- A. Principles of Organizations and Organizational Structure
- B. Motivation
- C. Delegation
- D. Problem Solving/Decision Making
  - 1. Time management (non-emergency)
  - 2. Controlling work activities
- E. Verbal communication
- F. Planning communication
- G. Written Communication

- H. Group Dynamics
- I. Managing Conflict
- J. Performance Evaluations
- K. Coaching and Counseling,
- L. Progressive Discipline
- M. Due Process
- N. Handling a Grievance

#### III. Management

- A. Internal and external influences
  - 1. Identifying common influences
  - 2. influence analysis
- B. Elements of management
  - 1. Goal setting
  - 2. Applying MBO to goal setting
- C. Managing change
  - 1. Policies, procedures, reports and record keeping
  - 2. Recognizing stress
- D. Time management

#### IV. Leadership

- A. Basic views of leadership
- B. Situational leadership
- C. Leadership qualities and traits

#### V. Human Relations

- A. Managing the workplace environment
- B. Affirmative Action
- C. Equal Employment Opportunity
- D. Americans with Disabilities Act

#### VI. Safety and Weilness Programs

- A. Safety management
- B. Stress management
- C. Wellness

#### VII. Laws, Standards, and Liability

A. For Company Officer

#### **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

· lecture and all outside activities fully online

Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- lecture video
- discussion board activities
- · quiz activities
- supplemental instructional video, such as YouTube, TedTalks, and PBS

Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

- · work with the College Instructional Designer
- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- · weekly lectures
- discussion opportunities between students weekly
- · student-to-student activities such as group work
- · regular assessment: both formative and summative
- · regular feedback weekly
- · re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- weekly lectures
- · weekly announcement using the LMS (Canvas)
- online orientation non-mandatory
- · timely feedback within the LMS (Canvas) within 72-hours of the due date
- midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- · LMS (Canvas) email respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- periodic online workshops non-mandatory

Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · weekly discussion boards robust posts and replies
- · LMC (Canvas) email

Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)

- . The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor will be using a 'Blueprint' course created by Merced College.

Specify "Other" here:

No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)

- · Dean of the Cohort/Department
- · Faculty teaching the course

Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in comment box)

Specify "Other" here:

None completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

department discussions on approving DE for this course (specify date(s) in comment box)

Specify "Other" here:

4/25/20

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

Yes

# Exhibit X



# Merced College Course Outline of Record Report 06/28/2022

# FIRE76A: Fire Apparatus Driver/Operator 1A (Emergency Vehicle Operations)

#### **General Information**

Author:

Bryan Donnelly

Course Code (CB01):

FIRE76A

Course Title (CB02):

Fire Apparatus Driver/Operator 1A (Emergency Vehicle Operations)

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09) :

Clearly Occupational

Distance Education Approved:No

Course Control Number (CB00) :CCC000376406 Curriculum Committee Approval Date:10/15/2015 Board of Trustees Approval Date:03/01/2005 External Review Approval Date:11/03/2011

**Course Description:** 

This course will provide fire service personnel with the knowledge of the laws and requirements

that pertain to emergency vehicle operation and basic maintenance, and trouble shooting, and

documentation of fire apparatus.

Submission Rationale:

Mandatory Revision

CTE 2 year review

Author.

No value

# **Faculty Requirements**

Master Discipline Preferred:

Fire Technology

Alternate Master Discipline Preferred:No value

Bachelors or Associates Discipline Preferred:No value

Additional Bachelors or Associates Discipline

No valu

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

**Grade Options** 

Course is not a basic skills course.

Course is not a special class.

• Letter Grade Methods

• Pass/No Pass

Allow students to gain Credit for Prior

Allowed Number of Retakes

Course Prior To College Level (CB21)

Learning (CPL)	0	No value
Credit for Prior Learning assessmen methods accepted		Allow Students To Audit Course
No value	No value	_
Course Support Course Status (CB2	6)	
No value		
Associated Programs		
Course is part of a program (CB2	24)	
Associated Program	Award Type	Active
No value	No value	
Transferability & Gen. Ed	I. Options	
Course General Education Status (CB25)	1	
No value		Transferability Status
Transferability (CB05)	,	Not transferable
Not transferable		
	-	
Units and Hours		
Units and Hours Summary		
Summary		
Summary Minimum Credit Units (CB07)2	40	
Summary Minimum Credit Units (CB07)2 Maximum Credit Units (CB06)2 Total Course In-Class (Contact)	40	
Summary Minimum Credit Units (CB07)2 Maximum Credit Units (CB06)2 Total Course In-Class (Contact) Hours Total Course Out-of-Class	79.92	
Summary  Minimum Credit Units (CB07)2  Maximum Credit Units (CB06)2  Total Course In-Class (Contact) Hours  Total Course Out-of-Class Hours	79.92	
Summary Minimum Credit Units (CB07)2 Maximum Credit Units (CB06)2 Total Course In-Class (Contact) Hours Total Course Out-of-Class Hours Total Student Learning Hours119.9	79.92 2 0	
Summary  Minimum Credit Units (CB07)2  Maximum Credit Units (CB06)2  Total Course In-Class (Contact) Hours  Total Course Out-of-Class Hours  Total Student Learning Hours 119.92	79.92 2 0	ory (CB22) Non-Credit Characteristic

Course Classification (	Code (CB11)	<b>Funding Agency Ca</b>	itegory (CB23)	Cooperative Work Experience Education
Credit Course.		Not Applicable.		Status (CB10)
Variable Credit Cou	irse			
Weekly Student	Hours		Course Stude	nt Hours
	In Class	Out of Class	Course Duration	(Weeks) 18
Lecture Hours	2.22	4.44	Hours per unit d	livisor54
Laboratory Hours	0	0	Course In-Class	(Contact) Hours
Activity Hours	0	0	Lecture	40
			Laboratory	0
			Activity	0
			Total	40
			Course Out-of-C	lass Hours
			Lecture	79.92
			Laboratory	0
			Activity	0
			Total	79.92

# **Time Commitment Notes for Students**

No value

# **Faculty Load**

Extra Duties: 0

Faculty Load: 0

# Units and Hours - Weekly Specialty Hours

Activity Name	Туре	In Class	Out of Class
No Value	No Value	No Value	No Value

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

# Advisory

ENGL85A - Foundations in Academic Litera

OR ENGL-85AC OR ENGL-85E Objectives

- A1. Make connections between course readings and prior knowledge.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts.

#### Outcomes

 Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

FIRE63A - Basic Firefighter I, Academy A

#### **Objectives**

 A. Perform skills and tasks as defined by the professional guidelines of the Firefighter 1 standards of the California State Fire Marshal. All SLO's are covered in this objective.

#### Outcomes

· Demonstrate competency in using hoses and nozzles.

#### AND

#### Prerequisite

FIRE63B - Basic Firefighter I, Academy B

#### Objective

A. Perform skills and relate knowledge equivalent to the requirements for Firefighter I certification as determined by the California State
 Fire Marshal. This objective covers all SLO's.

#### Outcomes

 Evaluate the emergency for safety needs and hypothetically apply appropriate methods of fire attack to fire scenarios involving various classification of fires

#### **Entrance Skills**

Entrance Skills Description

No value No value

# Limitations on Enrollment

Limitations on Enrollment Description

Must possess a valid California Drivers
License, Class B, fire fighter restricted
(minimum) must be physically fit per
department standards must not have a
hearing loss of 25 decibels or more in 3 of 4
frequencies must have vision better than or
corrected to far visual acuity of 20/30 with
contact lenses or spectacles must be a paid
call, volunteer or full time fire fighter at a
certified fire protection agency

No Value

# **Specifications**

#### Methods of Instruction

Methods of Instruction

Lecture

Rationale

No value

Methods of Instruction

Demonstration

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Video, film and slides

# **Assignments**

#### READING

Text

# WRITING

- 1. Complete student information sheets
- 2. Written assignments on the following

#### OUTSIDE

- 1. Reading and reviewing class texts
- 2. Skills development
- 3. Writing reports

#### **CRITICAL THINKING**

- 1. Trouble shooting (examining, inspecting, analyzing and applying various solutions to various operative and inoperative components of fire apparatus and filling out appropriate forms and reports.
- 2. Documenting trouble shooting exercises and explaining corrective measures with appropriate solutions.
- 3. Applying instructional techniques to driving exercises while being evaluated.

Methods of Evaluation

Rationale

Class Participation

No value

Other

Other - Manipulation skills testing

Exams/Tests

No value

Other

Other - Written reports

Equipment

Student handouts

**Textbooks** 

Author

Title

Publisher

Date

ISBN

IFSTA

Pumping Apparatus

International Fire

2011

Driver/Operator Handbook

Service Training

Association

Handbook

DMV

California Commercial Driver

ver California DMV

Current

Other Instructional Materials

Description

Current California Commercial Driver Handbook, Department of Motor Vehicles

Author

Citation

Fire Apparatus Driver/Operator 1A (Emergency Vehicle Operations)

Materials Fee

No value

# **Learning Outcomes and Objectives**

#### **Course Objectives**

No value

#### **CSLOs**

The student, when given information on driver responsibilities, recognized standards, and related laws for fire apparatus, will relate the information relevant to various fire apparatus driving and positioning situations by analyzing the situation and applying the appropriate law, responsibility, and/or standard.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Computation - Use mathematical skills and various aspects of technology appropriate to the task

The student when given information and techniques on basic inspections, documentation, maintenance, and troubleshooting fire apparatus issues, will be able to distinguish between properly operating systems and malfunctioning or impending failure of equipment including evaluating malfunctions and the ability to make repairs.

Expected SLO Performance: 70.0

ISLOs

. Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Computation - Use mathematical skills and various aspects of technology appropriate to the task

The student will be able to assess driving situations from a variety of ways, formulate questions, and project outcomes that will manipulate the situation.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

The student will, within stated time limits, operate a fire apparatus through- alley docking, station docking, serpentine, three point turn around, diminishing clearance backing exercises.

ISLOS Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

#### Outline

#### **Course Outline**

# 1. Responsibilities, Standards, and Laws

- A. Orientation and administration
  - 1. Code of Federal Regulations
  - 2. California Commercial Driver Handbook
- B. Fire Apparatus Driver/Operator Responsibilities
  - 1. California Vehicle Code
  - 2. California Commercial Driver Handbook
  - 3. NFPA Standard for Fire Apparatus Preventive Maintenance Program
  - 4. NFPA Standard for Fire Apparatus Driver/Operator professional qualifications
- C. Legal Aspects of emergency and non-emergency driving

#### II. Inspection, basic maintenance, documentation, and troubleshooting

- A. Introduction to inspection, basic maintenance, and troubleshooting
  - 1. Major apparatus systems grouped according to function
  - 2. NFPA Standard for Fire Apparatus Preventive Maintenance Program
  - 3. Out-of-Service criteria
- B. Inspection and Basic Maintenance of the Driver and Crew Areas, Apparatus Body, and Compartmentation
- C. Frame, Axles, Steering and Suspension Systems, Driveline, Wheels, and Tires
  - 1. Steering and suspension
  - 2. Wheels and tires
  - 3. Frame
  - 4. Steering problems, noises, vibrations
- D. Engine Systems
  - 1. Cooling
  - 2. Fuel system
  - 3. Oil
  - 4. Air filtration
  - 5. Exhaust
  - 6. Drive belt
  - 7. Fuel System
  - 8. Coolant level, lubrication system, air system (intake and exhaust)
- E. Transmission and Clutch
  - 1. Securely mounted
  - 2. Structurally sound
  - 3. Proper fluid level
  - 4. Leaking
  - 5. Clean
  - 6. Smooth or hard shifting
  - 7. Lubricants and Filters
  - 8. Transmission control and shift linkage
  - 9. Indicators and gauges
  - 10. Electronic diagnostic system
  - 11. Power take-off units
  - 12. Lock-up systems for pumps or other accessories
  - 13. Transmission braking systems
  - 14. Out-of-Service Criteria NFPA 1915
  - 15. Manual and Automatic Transmissions
  - 16. Symptom, possible cause, and possible corrective action
- F. Starting, Charging, and Other Electrical Systems
  - 1. Starting system
  - 2. Charging system
  - 3. Ignition system
  - 4. Electrical load management system (ELMS)
  - 5. Miscellaneous electrical components
  - 6. Apparatus lighting
  - 7. Working lighting
  - 8. Electrical Accessories

- 9. Warning devices
- 10. Electricity
- 11. Test equipment
- 12. Circuit defects
- 13. Charging and Starting Systems
- 14. Lighting circuits
- 15. Symptom, possible cause, and possible corrective action

#### G. Brake Systems

- 1. Types
- 2. Air Brake system
- 3. Hydraulic Brake systems
- 4. Secondary Brake systems
- 5. Inspection and basic maintenance
- 6. Symptoms, possible causes, and possible corrective actions
- 7. Out-ot-Service Criteria NFPA 1915

#### H. Auxiliary and Accessory Equipment

- 1. Inspection and basic brake systems
- 2. Troubleshooting
- I. Inspection, documentation, and reports
- J. Pre-trip inspection procedures

# **III. Driving Practices**

- A. Accident statistics and liability
  - 1. Statistics
  - 2. CVC liability
  - 3. Cost of accidents
- B. Principles of defensive driving
  - 1. Defensive driving
  - 2. Factors of defensive driving
  - 3. The Defensive Driver
  - 4. Factors contributing to accidents
  - 5. Safe driving techniques
- C. Principles of Code 3 response
- D. Procedures
- E. Roadway operations
- F. Driving apparatus to incidents
- G. Principles of Off-Road driving
- H. Principles of braking and stopping
- I. Principles of steering and load control
- J. Driving during adverse weather conditions
- K. Positioning apparatus

#### IV. Driving Demonstrations

- A. Diminishing clearance
- B. Serpentine
- C. Three-Point turnaround
- D. Station apparatus backing

# Exhibit Y



# Merced College Course Outline of Record Report

# FIRE76B: Fire Apparatus Driver/Operator 1B (Pump Operations)

#### **General Information**

Author:

Bryan Donnelly

Course Code (CB01):

FIRE76B

Course Title (CB02):

Fire Apparatus Driver/Operator 1B (Pump Operations)

Cohort:

Fire Technology

Proposal Start:

2019U

TOP Code (CB03):

(2133.00) Fire Technology

CIP Code:

(43.0201) Fire Prevention and Safety Technology/Technician

SAM Code (CB09):

C - Clearly Occupational

Distance Education Approved:

No

Course Control Number (CB00):

CCC000360474

Curriculum Committee Approval Date:

10/15/2015

Board of Trustees Approval Date:

03/01/2005

**External Review Approval Date:** 

11/03/2011

Course Description:

This course will provide fire service personnel with information on pump construction, theory of pump operation, and methods for performing basic hydraulics. Further, students will receive information and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. This course provides the student with information on pump construction and theory of pump operations. Topics include methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and

troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping

skills during simulated pumping conditions.

**Submission Rationale:** 

Mandatory Revision

CTE 2 year review

Author:

No value

### **Faculty Requirements**

Master Discipline Preferred:

· Fire Technology

Alternate Master Discipline Preferred:

No value

Bachelors or Associates Discipline Preferred:

No value

Additional Bachelors or Associates Discipline

No value

Preferred:

# **Course Development Options**

Basic Skill Status (CB08)

Course Special Class Status (CB13)

Course is not a basic skills course.

Course is not a special class.

**Grade Options** 

Pass/No Pass

Letter Grade Methods

Allow students to gain Credit for Prior

Learning (CPL)

Allowed Number of Retakes

Course Prior To College Level (CB21)

No value

Credit for Prior Learning assessment

methods accepted

No value

Course Support Course Status (CB26)

No value

**Retake Policy Description** 

No value

Allow Students To Audit Course

# **Associated Programs**

Course is part of a program (CB24)

**Associated Program** 

**Award Type** 

No value

Active

No value

# Transferability & Gen. Ed. Options

Course General Education Status (CB25)

No value

Transferability (CB05)

Transferability Status

Not transferable

Not transferable

# **Units and Hours**

#### Summary

Minimum Credit Units (CB07)

Maximum Credit Units (CB06)

2

**Total Course In-Class (Contact)** 

40

Hours

**Total Course Out-of-Class** 

79.92

Hours

**Total Student Learning Hours** 

119.92

**Faculty Load** 

0

# **Credit / Non-Credit Options**

Course Credit Status (CB04)

Course Non Credit Category (CB22)

Non-Credit Characteristic

Credit - Degree Applicable

Credit Course.

No Value

Course Classification Code (CB11)

Funding Agency Category (CB23)

Cooperative Work Experience Education

Credit Course.

Not Applicable.

Status (CB10)

Variable Credit Course

**Weekly Student Hours** 

**Course Student Hours** 

	In Class	<b>Out of Class</b>	Course Duration (Weeks)	18
Lecture Hours	2.22	4.44	Hours per unit divisor	54
Laboratory Hours	0	0	Course In-Class (Contact) Hou	ırs
Activity Hours	0	0	Lecture	40
			Laboratory	0
			Activity	0
			Total	40

Course Out-of-Class Hours

79.92 Lecture 0 Laboratory Activity 0 Total 79.92

**Time Commitment Notes for Students** 

No value

**Faculty Load** 

Extra Duties: 0

Faculty Load: 0

Units and Hours - Weekly Specialty Hours

**Activity Name** 

Type

In Class

**Out of Class** 

No Value

No Value

No Value

No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

#### Advisory

#### MATH80 - Prealgebra

#### **Objectives**

- A. Evaluate expressions composed of real numbers including whole numbers, integers, fractions, decimals, and exponents without the use
  of a calculator.
- · D2. Determine an appropriate technique to solve first degree equations
- · E1. Evaluate problems involving unit conversions
- · E3. Translate word problems to an equation and solve using an appropriate method

#### Outcomes

- Evaluate expressions involving square roots, ratios, proportions, and percents.
- · Solve first-degree equations and application problems composed of whole numbers, integers, decimals, real numbers, and fractions.
- · Solve application problems involving formulas and measurement concepts using algebra concepts and a scientific calculator.

#### AND

### Advisory

ENGL85A - Foundations in Academic Litera

#### OR ENGL-85AC OR ENGL-85E Objectives

- A1. Make connections between course readings and prior knowledge.
- · A4. Annotate a variety of texts to identify thesis, primary support, and other rhetorical features.
- C. Apply, at the pre-transfer level, critical thinking strategies of summary, analysis, evaluation, and synthesis to engage with the ideas of texts

#### **Outcomes**

- Use the reading process, at the pre-transfer level, to access a variety of texts.
- Apply, at the pre-transfer level, critical thinking strategies, such as summary, analysis, evaluation, and synthesis, to engage in both the reading and writing process.

#### AND

#### Prerequisite

FIRE76A - Fire Apparatus Driver/Operator 1A (Emergency Vehicle Operations)

#### Outcomes

- The student, when given information on driver responsibilities, recognized standards, and related laws for fire apparatus, will relate the
  information relevant to various fire apparatus driving and positioning situations by analyzing the situation and applying the appropriate
  law, responsibility, and/or standard.
- The student when given information and techniques on basic inspections, documentation, maintenance, and troubleshooting fire
  apparatus issues, will be able to distinguish between properly operating systems and malfunctioning or impending failure of equipment
  including evaluating malfunctions and the ability to make repairs.
- The student will be able to assess driving situations from a variety of ways, formulate questions, and project outcomes that will manipulate
  the situation
- The student will, within stated time limits, operate a fire apparatus through- alley docking, station docking, serpentine, three point turn
  around, diminishing clearance backing exercises.

#### **Entrance Skills**

Entrance Skills	Description
No value	No value

#### **Limitations on Enrollment**

Limitations on Enrollment

Description

Must possess a valid California Drivers License, Class A,B, or C with fire fighter endorsement (minimum) must be physically fit per department standards must not have a hearing loss of 25 decibels or more in 3 of 4 frequencies must have vision better than or corrected to far visual acuity of 20/30 with contact lenses or spectacles must be a paid call, volunteer or full time fire fighter at a certified fire protection agency No Value

# **Specifications**

Methods of Instruction

Methods of Instruction

Lecture

Rationale

No value

Methods of Instruction

Demonstration

Rationale

No value

Methods of Instruction

Other

Rationale

Other - Video, film and slides

#### **Assignments**

#### READING

Texts and handout materials

#### WRITING

- 1. Complete student information sheets
- 2. Complete equipment reports

#### OUTSIDE

- 1. Reading and reviewing class texts
- 2. Skills development
- 3. Writing reports

# **CRITICAL THINKING**

- 1. Through demonstration and written exercises explain- trouble shooting; examining, inspecting, analyzing and applying various solutions to various operative and inoperative components of fire apparatus
- 2. In groups and alone, participate in trouble shooting exercises and solution finding exercises.

Methods of Evaluation

Rationale

Class Participation

No value

Other

Other - Manipulation skills testing

Other

Other - Written quizzes

Exams/Tests

No value

Other

Other - Written reports

Equipment

No Value

**Textbooks** 

Author

Title

Publisher

Date

ISBN

IFSTA

**Pumping Apparatus** 

Driver/Operator Handbook

International Fire Service Training

Association

2006

California State Fire Marshal

Office

Driver/Operator 1B Student

Manual

State of California

01-01-2008

Other Instructional Materials

Description

Current California Commercial Driver Handbook, Department of Motor Vehicles

Author

Citation

Fire Apparatus Driver/Operator 1B (Pump Operations)

Description

Student handouts

Author

Citation

Fire Apparatus Driver/Operator 1B (Pump Operations)

Materials Fee

No value

# **Learning Outcomes**

**Course Objectives** 

No value

**CSLOs** 

Examine and relate the key attributes of pump construction and theory,

Expected SLO Performance: 70.0

ISLOs Core ISLOs Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Assess mathematical pumping problems and apply the appropriate computation method to a given hydraulics scenario. Expected SLO Performance: 70.0

**ISLOs** 

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Computation - Use mathematical skills and various aspects of technology appropriate to the task

Distinguish between properly and improperly operating pumping and mechanical systems.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Computation - Use mathematical skills and various aspects of technology appropriate to the task

#### Outline

#### **Course Outline**

#### I. Responsibilities, standards, and laws

- A. Orientation and administration
  - 1. History
  - 2. Relevance of standards
- B. Fire Apparatus Driver/Operator responsibilities

#### II. Fire Pump Construction and Theory

- A. Types
  - 1. Positive displacement pumps
  - 2. Rotary pumps
  - 3. Centrifugal pumps
- B. Pump mounting and drive arrangements
  - 1. Six methods of transmitting power to the pump
  - 2. Auxiliary engine driven pumps
  - 3. Power Take-Off pumps
  - 4. Front-Mount pumps
  - 5. Midship Pumps
  - 6. Rear-Mount Pumps
  - 7. Hydrostatic Driven Pumps
- C. Pump Piping and Valves
- D. Automatic Pressure Control Devices
  - 1. Types of Pressure Control Devices
  - 2. Pressure Relief Valves
  - 3. Pressure Governor
- E. Priming Devices
  - 1. Overview
  - 2. Types of priming devices
- F. Pump Panel instrumentation
- G. Auxiliary cooling devices

#### III. Basic Hydraulics

- A. Basic Hydraulic terminology and symbols
- B. Mathematics review
- C. Characteristics of water and principles of pressure
  - 1. Water can exist in three forms
  - 2. Weight of water
  - 3. Water expansion

- 4. Water hammer
- 5. How Pressure acts on fluids
- D. Principle Features of Water Systems
  - 1. Water supply sources
  - 2. Pumps and pumping stations
  - 3. Gravity system
  - 4. Combination system
  - 5. Distribution systems
  - 6. Grid system piping
  - 7. General information

#### E. Nozzle Theory

- 1. Types of nozzles
- 2. Handline nozzles
- 3. Broken stream nozzles
- 4. Master Streams
- 5. Nozzle Reaction
- F. Calculating Gallons Per Minute
- G. Principles of Friction Loss
- H. Friction Loss Formulas Calculations
  - 1. Friction loss formula
  - 2 Friction loss coefficients
    - 3. Calculating -o-
    - 4. Calculating friction loss
    - 5. Single hoseline friction loss
    - 6. Multiple hoselines of equal size and length
    - 7. Wyed hose lay of equal lengths
    - 8. Siamese hoselines of equal length
    - 9. Multiple hoselines of unequal length
    - 10. Wyed hose lay of unequal length
    - 11. Siamese hoselines of unequal length
- I. Pump Discharge Pressure
- J. Fireground Hydraulic Calculations

#### IV. Inspection, Maintenance, and Troubleshooting

- A. Inspecting the Pump Drive Systems and Components
- B. Inspecting the Pump Priming Systems
- C. Inspecting the Pump Pressure Control System
- D. Pump Service Testing
- E. Maintenance of the Pump and Control Systems

#### **V. Pump Practices**

- A. Making the Pump Operational (From Tank)
- B. Transitioning to an External Water Supply
- C. Operating from a Hydrant
- D. Principles and Practices of Drafting Operations
- E. Principles of Relay Pump Operations
- F. Troubleshooting Pump Operations
- G. Principles of Tandem Pumping Operations
- H. Principles of Dual Pumping Operations
- I. Principles and Practices of Foam Operations
- J. Sprinkler and Standpipe Support

#### VI. Pumping Exercises

- A. Introduction to Pumping Exercises
- **B.** Types of Exercises
- C. Operating from Draft
- D. Operating Using a Forward Lay
- E. Operating Using a Reverse Lay
- F. Safety Considerations

# Exhibit Z



# Merced College Course Outline of Record Report 08/07/2025

# EMER-52: Emergency Medical Technician 1 Refresher

#### **General Information**

Author:

Gabriela Garcia

Course Code (CB01):

EMER-52

Course Title (CB02):

Emergency Medical Technician 1 Refresher

Cohort:

**Emergency Medical** 

Proposal Start:

20205

TOP Code (CB03):

(1250.00) Emergency Medical Services

CIP Code:

(51.0904) Emergency Medical Technology/Technician (EMT Paramedic)

SAM Code (CB09):

C - Clearly Occupational

Distance Education Approved:

Yes

Course Control Number (CB00):

CCC000551565

Curriculum Committee Approval Date:

02/07/2019

**Board of Trustees Approval Date:** 

03/26/2019

External Review Approval Date:

02/06/2019

Course Description:

The course is for currently certified Emergency Medical Technician 1's and for those that have successfully completed an approved EMT 1 course. The course is designed to provide the medical continuing education refresher component modules required for maintaining certification and for those that require remediation for taking the National Registry examination. Students may petition, through the Office of Admissions and Records, to retake the course for the purpose of re-

certification as necessary.

Submission Rationale:

No value

Author:

No value

# **Faculty Requirements**

Master Discipline Preferred:

Emergency Medical Technologies

Alternate Master Discipline Preferred:

No value

**Bachelors or Associates Discipline Preferred:** 

No value

Additional Bachelors or Associates Discipline

No value

Preferred:

Course Development Options

Basic Skill Status (CB08)

Course Special Class Status (CB13)

Course is not a basic skills course.

Course is not a special class.

**Grade Options** 

Letter Grade Methods

Pass/No Pass

Allow students to gain Credit for Prior

Learning (CPL)

**Allowed Number of Retakes** 

Course Prior To College Level (CB21)

Not applicable.

Credit for Prior Learning assessment

methods accepted

No value

**Retake Policy Description** 

No value

Allow Students To Audit Course

Course Support Course Status (CB26)

Course is not a support course

# **Associated Programs**

Course is part of a program (CB24)

Associated Program

**Award Type** 

Active

No value

No value

# Transferability & Gen. Ed. Options

Course General Education Status (CB25)

Not Applicable

Transferability (CB05)

Transferability Status

Not transferable

Not transferable

#### **Units and Hours**

# Summary

Minimum Credit Units (CB07)

1.5

Maximum Credit Units (CB06)

1.5

Total Course In-Class (Contact)

27

Hours

**Total Course Out-of-Class** Hours

**Total Student Learning Hours** 

81

Faculty Load

# Credit / Non-Credit Options

Course Credit Status (CB04)

Course Non Credit Category (CB22)

Non-Credit Characteristic

Credit - Degree Applicable

Credit Course.

No Value

Credit Course.		runding Agency C	ategory (CB23)	Cooperative Work Experience Education
		Not Applicable.		Status (CB10)
Variable Credit Cou	irse			
Weekly Student	Hours		Course Student Hou	ırs
	In Class	Out of Class	Course Duration (Weeks	18
Lecture Hours	1.5	3	Hours per unit divisor	54
Laboratory Hours	0	0	Course In-Class (Contact	) Hours
Activity Hours	0	0	Lecture	27
			Laboratory	0
			Activity	0
			Total	27
			Course Out-of-Class Hou	irs
			Lecture	54
			Laboratory	0
			Activity	0
			Total	54
Time Commitme	ent Notes for	Students		
	ent Notes for S	Students		
No value	ent Notes for S	Students	Faculty Load: 0	,
No value  Faculty Load			Faculty Load: 0	,
Faculty Load Extra Duties: 0			Faculty Load: 0 In Class	Out of Class

# Pre-requisites, Co-requisites, Anti-requisites and Advisories

No Value

#### **Entrance Skills**

**Entrance Skills** 

Description

No value

No value

# **Limitations on Enrollment**

**Limitations on Enrollment** 

Description

Current EMT Certification and Current CPR course based on American Red Cross Professional Rescuer or American Heart Association Healthcare Provider or Successful completion of an approved EMT 1 course and current CPR course based on American Red Cross Professional Rescuer or American Heart Association Healthcare Provider.

No Value

# **Specifications**

Methods of Instruction

Methods of Instruction

Class Discussion

Rationale

No value

Methods of Instruction

Demonstration with Return Demonstration

Rationale

No value

Methods of Instruction

Observation and Demonstration

Rationale

No value

Methods of Instruction

Lecture

Rationale

No value

**Assignments** 

READING

Text

Hand	Out	mat	er	ia	k

### WRITING

Patient assessment forms

#### OUTSIDE

Reading of assigned materials Completion of assigned work

# CRITICAL THINKING

- 1. Exam(s)
- 2. Quizzes
- 3. Homework problems
- 4. Skill Demonstration

Methods of Evaluation	Rationale
Class Performance	No value
Exams/Tests	No value
Simulation	No value

# Equipment

No Value

#### Textbooks

Author	Title	Publisher	Date	ISBN
American Academy of Orthopaedic Surgeions	Emergency Care and Transportation of the Sick and Injured	Jones and Bartlett	01-01-2017	

### Other Instructional Materials

No Value

### Materials Fee

No value

# **Learning Outcomes**

# **Course Objectives**

A. Describe the roles and responsibilities of an EMT with regard to personal safety and wellness, as well as the safety of others.

- B. Compare patient assessment and treatment modalities relative to age and human life span development.
- C. Describe the need for lifesaving interventions to manage a patient's airway, breathing, and circulation.

#### **CSLOs**

#### Use assessment findings to identify and treat illness/injury.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core

ISLOs Communication - Use language and non-verbal modes of expression appropriate to the audience and purpose.

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

#### Perform the skills required by NREMT for certification.

Expected SLO Performance: 70.0

ISLOs Core ISLOs Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and

the important of community involvement

#### Describe behavior consistent with the ethical standards of EMS.

Expected SLO Performance: 70.0

ISLOs

Cognition - Use critical thinking skills to analyze, synthesize and evaluate ideas and information

Core ISLOs

Global & Community Consciousness and Responsibility - Demonstrate an understanding of different cultures and knowledge of historical eras and the important of community involvement

Personal Development and Life-Long Learning - Demonstrate self-management, maturity and growth through practices that promote physical, mental and emotional well being.

### Outline

#### **Course Outline**

#### Preparatory

- A. Scene Safety
- B. Quality Improvement
- C. Health and Safety
- D. Medical Legal

#### Airway

- A. Opening the Airway
- **B. Techniques of Suctioning**
- C. Techniques of Artificial Ventilation
- D. Airway Adjuncts
- E. Oxygen

#### Patient Assessment

- A. Scene Size-up / Assessment
- **B. Initial Assessment**
- C. Focused History and Physical Exam
- D. Ongoing Assessment
- E. Verbal Communication
- F. Interpersonal Communication

#### G. Prehospital Care Report

Medical / Behavioral

- A. General Pharmacology
- B. Breathing Difficulty
- C. Cardiac Emergencies
- D. Emergency Medical Care of a Patient with an Altered Mental Status
- E. Emergency Medical Care of an Altered Mental Status with a history of Diabetes
- F. Emergency Medical Care of an Allergic Reaction
- G. Emergency Medical Care of Poisoning/Overdose
- H. Behavioral Emergencies

#### Trauma

A. Shock

- B. Emergency Medical Care of an Open Chest Wound
- C. Emergency Medical Care for an Open Abdominal Injury
- D. Emergency Medical Care of Amputations
- E. Emergency Medical Care of Burns
- F. Injuries to Bones and Joints
- G. Head and Spine Injuries
- H. Rapid Extrication

Obstetrics, Infants and Children

- A. Normal Delivery
- **B.** Abnormal Deliveries
- C. Medical Problems in Infants and Children
- D. Trauma in Children

#### **DE Addendum Revisions**

Response #1: Explain how time and/or distance will separate the instructor and students. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

face-to-face lab and online lecture and activities – hybrid

# Specify "Other" here:

No Value

Response #2: Explain how the instructor will distribute the required number of unit hours per week using technology. Definition and Application as defined by Title 5 Section 55220. (Possible Responses in the pull-down menu – select all that apply)

- · lecture video
- · discussion board activities
- quiz activities
- content via Google Slide / PowerPoint presentations
- supplemental instructional video, such as YouTube, TedTalks, and PBS

#### Specify "Other" here:

No Value

Response #3: Explain how the instructor will meet ADA requirements in designing this course. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply)

work with the College Instructional Designer

- · work with the College ADA specialist
- · work with the local POCR Team
- · receive a 'Badge' from the CVC-OEI Design Academy
- · utilize a 'Blueprint' course

Response #4: Explain how the instructor's course will meet the same quality standards as an in-person counterpart. Course Quality Standards as defined by Title 5 Section 55202. (Possible Responses in the pull-down menu – select all that apply) • The online course will offer:

- · weekly lectures
- · discussion opportunities between students weekly
- · student-to-student activities such as group work
- · regular assessment: both formative and summative
- · regular feedback weekly
- · re-teaching opportunities

Specify "Other" for Response #3 here:

No Value

Specify "Other" for Response #4 here:

No Value

Response #5: Explain how the instructor will conduct regular and effective contact between the instructor and students. Please include the time frame parameters. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · pre-class 'Welcome Letter'
- weekly lectures
- · weekly announcement using the LMS (Canvas)
- online orientation non-mandatory
- · timely feedback within the LMS (Canvas) within 72-hours of the due date
- · gradebook alerts weekly
- midterm and end-of-course surveys
- · College email respond within 24-hours M-F
- · LMS (Canvas) email respond within 24-hours M-F
- office phone respond within 24-hours M-F
- · periodic online review/study sessions non-mandatory
- · periodic online workshops non-mandatory

Specify "Other" here:

No Value

Response #6: Explain how the instructor will promote regular and effective contact among students either synchronously or asynchronously. Regular and Effective Contact as defined by Title 5 Section 55204. (Possible Responses in the pull-down menu – select all that apply)

- · weekly discussion boards robust posts and replies
- group work, peer review, small group discussion boards, other (specify in comment box)
- · LMC (Canvas) email

Specify "Other" here:

No Value

Response #7: This course will strive to meet the quality standards for alignment at 100% as set forth in the CVC-OEI Rubric in one or more of the following ways. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)

- The instructor has conducted a self-assessment of the CVC-OEI Rubric.
- The instructor's course has been 'Badged' by the CVC-OEI Design Academy.
- The instructor will be using a 'Blueprint' course created by Merced College.

	S	pecify	"Other"	here:
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No Value

Response #8: The following parties will be responsible to ensure the portion of instruction delivered via distance education meets regular and effective contact. Separate Course Approval as defined by Title 5 Section 55206. (Possible Responses in the pull-down menu – select all that apply)

- · Dean of the Cohort/Department
- · Faculty teaching the course

#### Specify "Other" here:

No Value

Response #9: The College has identified the instructor as prepared to teach in a distance, education delivery method consistent with local district policies and negotiated agreements in the following ways. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

• other (specify in comment box)

#### Specify "Other" here:

Not completed yet

Response #10: Explain the process the department faculty used to determine this course was a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu – select all that apply)

· other (specify in the comment box)

#### Specify "Other" here:

Not recommended but can be hybrid in an 'emergency'

Response #11: The Dean of the discipline supports this course as a good fit for online delivery. Faculty Selection and Workload as defined by Title 5 Section 55208. (Possible Responses in the pull-down menu)

Yes