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			Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
			F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
	INSTITUTIONAL STUDENT LEARNING OUTCOMES - ISLOs													
ISLO 1	**COMMUNICATION**													
1A	Read													
1B	Listen													
1C	Write													
1D	Dialogue													
ISLO 2	**TECHNOLOGY AND INFORMATION COMPETENCY**													
2A	Demonstrate Technical Literacy													
2B	Apply Technology													
2C	Access Information													
2D	Evaluate and Examine Information													
ISLO 3	**CRITICAL AND CREATIVE THINKING**													
3A	Inquire													
3B	Analyze													
3C	Problem Solve													
3D	Express													
ISLO 4	**CITIZENSHIP**													
4A	Ethics													
4B	Diversity													
4C	Sustainability/Global Awareness													
4D	Personal Responsibility													

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5				F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
30		**FIRE TECHNOLOGY PROGRAM OUTCOMES - PSLOs**	**Related ISLOs**	Enter "X" in boxes as appropriate											
31	PSLO A	Analyze and apply measures to resolve problems in areas of fire suppression, fire prevention and EMS.	1A, 1B; 2C, 2D; 3A, 3B, 3C; 4A, 4D	x	X	X	X	X	X						
32	PSLO B	Recognize the importance of ethics, professionalism and diversity within the fire technology field.	1B, 1D; 4A, 4B, 4C, 4D	x	X	X	X	X	X						
33	PSLO C	Communicate effectively in both oral presentations and written reports.	1A, 1B, 1C, 1D; 2B, 2C, 2D; 3A, 3B, 3D; 4D	x	X		X	X	X						
34	PSLO D	Demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.	1A, 1B, 1C, 1D; 2A, 2B, 2C, 2D; 3C; 4D	x	X	X	X	X	X						
35	PSLO E	Demonstrate knowledge and understanding of the fire service industry.	1D; 2C; 3A, 3B; 4C, 4D	x	X	X	X	X	X						
36															
37		**Total Number of Program Outcomes** (manually enter)	5	5											
38		**Number of Program Outcomes Assessed** (per formula)		5	5	4	5	5	5	0	0	0	0	0	0
39		**Percentage of Program Outcomes Assessed** (per formula)		100%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
40															
41	**FIRE TECHNOLGOY: A.A. Degree Outcomes - same as the PSLOs.**														
42	**FIRE TECHNOLOGY: A.S. Degree Outcomes - same as the PSLOs.**														
43	**FIRE TECHNOLOGY: Certificate of Achievement Outcomes - same as the PSLOs.**														
44		**FIRE TECHNOLOGY COURSE OUTCOMES - CSLOs**	**Related PSLOs**	Enter "X" in boxes as appropriate for Planned, "C" for Complete											
45		**FIRE 1 FIRE PROTECTION ORGANIZATION**													
46	CSLO 1	Analyze and describe the differences between the certificate, two-year degree programs, four-year degree programs, and firefighter state certification.	B, E								P				
47	CSLO 2	Differentiate the educational requirements, duties, and information sources for various occupations in fire protection.	A. B, E, D		C										
48	CSLO 3	Examine the evolution of fire protection, origins of modern fire protection, and how fire losses have effected the modern fire service.	A, B, E												
49	CSLO 4	Conclude whether or not to pursue a career in the fire service and chart a career pathway.	B, E												

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50		**FIRE 3 FIRE BEHAVIOR AND COMBUSTION**		Enter "X" in boxes as appropriate for Planned, "C" for Complete											
51	CSLO 1	Compare, differentiate and explain terminology, definitions, and phenomena of fire chemistry and dynamics.	C, E								P				
52	CSLO 2	Assess and justify various methods and techniques to use in fire extinguishment.	A, E												
53	CSLO 3	Compare and contrast desirable and undesirable characteristics of water, and recommend its most appropriate application, given a structural fire scenario.	A, D, E		C										
54		**FIRE 4 FIRE PROTECTION EQUIPMENT AND SYSTEMS**													
55	CSLO 1	Differentiate types, components, and operation of fire protection systems and equipment.	A, D			C									
56	CSLO 2	Compare detection, alarm and supervisory devices and systems.	A, D									P			
57	CSLO 3	Differentiate and analyze types, classifications, and effectiveness ratings of fire extinguishers, their distribution, installation, and test requirements.	A, D												
58	CSLO 4	Distinguish state and federal laws relating to detection and suppression systems for residential and commercial applications.	E												
59		**FIRE 5 FIRE PREVENTION TECHNOLOGY**													
60	CSLO 1	Analyze and Interpret the origin and history of fire prevention.	A, D, E												
61	CSLO 2	Evaluate methods and procedures used in fire prevention programs.	A, B, D, E												
62	CSLO 3	Distinguish and identify the responsibility and authority for fire prevention inspections and related activities.	A, B, C, E			C									
63	CSLO 4	Correlate and examine the basic principles of fire cause determination as they relate to fire prevention and fire investigation.	A, C, E									P			
64	CSLO 5	Compare and contrast the relationship between fire safety education and fire prevention.	A, C, D												
65	CSLO 6	Evaluate the importance of report preparation and records management in fire prevention efforts.	C, D												
66		**FIRE 7 FUNDAMENTALS OF FIRE SERVICE OPERATIONS**													
67	CSLO 1	Compare and contrast the organizational divisions of a typical fire department and evaluate the duties and responsibilities of these divisions.	A, B, C, E										P		
68	CSLO 2	Analyze the management systems and give examples of where they could be used in the fire service.	A, C, E												
69	CSLO 3	Evaluate and defend the safety considerations that should be used on various emergency incidents.	A, C, E				C								

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70		**FIRE 8 BUILDING CONSTRUCTION FOR FIRE PROTECTION**		Enter "X" in boxes as appropriate											
71	CSLO 1	Assess the importance of studying building construction as it relates to firefighter safety and fire ground operations.	A, C, D, E												
72	CSLO 2	Compare and contrast the various types of building construction and how they behave under fire conditions.	A, C, E			C									
73	CSLO 3	Investigate the construction materials used in different building types.	A, D, E												
74	CSLO 4	Distinguish building construction terminology.	C, E									P			
75		**FIRE 10 PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL**													
76	CSLO 1	Defend the need for cultural and behavioral change within the emergency services relating to safety, incorporating leadership, supervision, accountability and personal responsibility.	A, B, E												
77	CSLO 2	Assess the need for enhancements of personal and organizational accountability for health and safety.	A, B, E		C										
78	CSLO 3	Justify the need for annual medical evaluations and the establishment of physical fitness criteria for personnel throughout their careers.	A, B, E								P				
79	CSLO 4	Develop and discuss the importance of investigating all near misses, injuries and fatalities.	A, C, D, E												
80		**FIRE 28 INDEPENDENT STUDY**													
81		**FIRE 50 BASIC FIREFIGHTER TRAINING (WILDLAND)**													
82	CSLO 1	Analyze basic rates of spread and resistance to control factors associated with wildland fire.	A, D, E												
83	CSLO 2	Compare potential fire control tactics and strategy that can be employed on a wildland fire.	A, C, D, E							P					
84	CSLO 3	Investigate common denominators of fatal and near miss wildland fire tragedies.	A, B, C, D, E	C											
85	CSLO 4	Evaluate common fireline practices, situations, and injury/fatality scenarios and apply the 10 Standard Firefighting Orders and 18 Watchout Conditions to them.	A, C, D, E												

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86		**FIRE 73 FIRE HYDRAULICS**		Enter "X" in boxes as appropriate											
87	CSLO 1	Analyze the extinguishing properties of water including the Law of Specific Heat and the Law of Latent Heat of Vaporization.	A, D	C											
88	CSLO 2	Define hydraulics and demonstrate the ability to formulate pump pressures.	A, D							P					
89	CSLO 3	Generate the correct engine pressure for various pumping situations.	A, D, C												
90	CSLO 4	Explain how to flow test a fire hydrant and calculate the available water.	A, D, C												
91		**FIRE 74 FIRE APPARATUS AND EQUIPMENT**													
92	CSLO 1	Compare and contrast various types of fire service pumping apparatus.	A, D, E												
93	CSLO 2	Analyze a preventive maintenance program for pumping apparatus.	A, C			C									
94	CSLO 3	Examine proper emergency vehicle operation and positioning at emergencies.	A, C, D, E												
95	CSLO 4	Determine the advantages and disadvantages of using water as a fire extinguishing agent.	A, C, E									P			
96	CSLO 5	Compare and contrast the efficiency and effectiveness of a fog nozzle versus a smooth bore nozzle.	A, C, D, E												
97		**FIRE 75 WILDLAND FIRE CONTROL**													
98	CSLO 1	Analyze the need for public education programs by reviewing local and national incidents.	A, D												
99	CSLO 2	Determine the strengths and weaknesses of distributing information via mass media.	A, C, D, E												
100	CSLO 3	Analyze firefighting tactics and strategies used for containment of wildland and urban interface fires.	A, C, D, E				C								
101	CSLO 4	Support how to use a map and a compass with the proper declination to determine an azimuth, or precise direction, and the distance between the two points.	A, B, D, E										P		
102			D, E												
103		**FIRE 78 FIRE TACTICS AND STRATEGY**													
104	CSLO 1	Outline strategic goals and tactical objectives for responding to a residential fires and multiple-family dwelling fires.	A, C, D, E		C										
105	CSLO 2	Outline strategic goals and tactical objectives for responding to commercial and high-rise fires.	A, C, D, E								P				
106	CSLO 3	Prepare strategic goals and tactical objectives for wildland and wildland–urban interface fires.	A, C, D, E												
107	CSLO 4	Explain the purpose of termination plans, formal post-incident analysis, and the critical incident stress management system.	A, C, D, E												
108		**FIRE 95 INTERNSHIP IN FIRE TECHNOLOGY**													

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109		**FIRE 98 FIRE TECHNOLOGY CAREER PATHWAYS**													
110	CSLO 1	Outline specific areas of interest within the fire technology field.	A, B, C, D												
111	CSLO 2	Demonstrate skills necessary to complete the steps involved in the hiring process.	A, B, C, D			CAN				P					
112	CSLO 3	Create a personal history statement (PHS) to identify personal obstacles to getting hired.	A, B, C, D												
113	CSLO 4	Identify potential barriers to employment and assemble a personal plan to overcome those barriers.	A, B, C, D												
114		**FIRE 99 INTRODUCTION TO FIRE ACADEMY**													
115	CSLO 1	Identify the fire service mission and organizational principles.	A, B, C, E												
116	CSLO 2	Apply basic skills utilizing fire tools and equipment.	D			C									
117	CSLO 3	Complete effective written and oral reports relating to the fire industry.	A, C, E									P			
118		**FIRE 100 FIREFIGHTER 1 ACADEMY**		Enter "X" in boxes as appropriate											
119	CSLO 1	Assess the role of a firefighter in fire department organizations; and then successfully integrate themselves into an appropriate role within the organization.	A, E												
120	CSLO 2	Explain basic fire chemistry and physics to extinguish different types of fires.	A, E								P				
121	CSLO 3	Assess safety and risk management techniques to all functions and aspects of firefighting, personal protective equipment, fire suppression equipment and building construction.	A, E												
122	CSLO 4	Apply and maintain firefighting equipment used by firefighters in the suppression of different types of fires, rescues and hazard mitigation.	C, D		C										
123	CSLO 5	Apply basic laboratory skills learned in a methodical, expedient, safe and strategic manner in real life simulations.	A, C, D, E												
124		**FIRE 101 FIREFIGHTER I CERTIFICATION TESTING**													
125	CSLO 1	Identify the Firefighter I certification track, test evaluation methods participation and capstone task book requirements.	E												
126	CSLO 2	Demonstrate the ability to perform municipal Firefighter-1 skills.	A, C, D, E				CAN		C						
127	CSLO 3	Demonstrate the ability to perform Wildland Firefighter-1 skills.	A, C, D, E												P
128		**FIRE 102 FIREFIGHTER II TRAINING**													
129	CSLO 1	Describe the roles and responsibilities of the Firefighter II.	A, B, C, D, E												
130	CSLO 2	Demonstrate various foam application techniques for extinguishing an ignitable liquid fire.	A, D		C										
131	CSLO 3	Describe different suppression approaches and practices for various types of structural fires.	A, D, E								P				

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132	CSLO 4	Demonstrate how to complete a fire service incident report.	C, D, E												
133		**FIRE 170 HAZARDOUS MATERIALS - OPERATIONAL LEVEL**													
134	CSLO 1	Propose initial actions for a safe response, scene isolation, and required notifications regarding a hazardous material event/incident.	A, C, E			CAN		C							
135	CSLO 2	Describe implementation of the Incident Command System to manage a hazardous material event.	A, C, E												
136	CSLO 3	Apply proper and safe responses for first responders – operational. Given written exercises depicting hazardous materials events.	A, E											P	
137		**FIRE 171 INTRODUCTION TO WILDLAND FIRE BEHAVIOR S-190**													
138	CSLO 1	Examine the environmental factors of wildland fire behavior that affect the start and spread of wildland fire.	A, D, E												
139	CSLO 2	Determine the three principal environmental elements affecting wildland behavior.	A, D, E			C									
140	CSLO 3	Describe the effect relative humidity has on wildland fire.	A, E												
141	CSLO 4	Evaluate four factors of topography that affect wildland fire behavior.	A, D, E									P			
142		**FIRE 172 INTERMEDIATE WILDLAND FIRE BEHAVIOR S-290**													
143	CSLO 1	Compare and contrast three methods of heat transfer.	D, E									P			
144	CSLO 2	List the seven wildland fire environment factors to monitor on the fireline.	A, C, D, E												
145	CSLO 3	Describe how rate of spread and flame length react to changes in fuel, fuel moisture, wind and slope.	A, C, D, E			C									
146	CSLO 4	Explain the significance of the earth's "heat balance".	C, D, E												
147		**FIRE 173 HAZARDOUS MATERIALS - INCIDENT COMMANDER**													
148	CSLO 1	Describe the primary hazardous materials protective action options.	A, D,			CAN		CAN		P					
149	CSLO 2	Demonstrate and outline incident response objectives, an incident Action Plan, and a Site Safety Plan.	E												
150	CSLO 3	Identify the potential action response options (defensive, offensive and non-intervention).	A												
151		**FIRE 174 HUMAN RESOURCE MANAGEMENT FOR COMPANY OFFICERS - CO 2A**													

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152	CSLO 1	Compare theories of supervision, management, leadership concepts and practices in fire services.	A, B, D, E				CAN		CAN						
153	CSLO 2	Explain the advantages, disadvantages and effects of company officer leadership styles.	A, B, D, E												
154	CSLO 3	Identify basic supervisory, managerial, and leadership skills required for the fire service company officer in decision making, delegating, personnel motivation, communicating, time management, resource management, record keeping, team building, disciplinary functions, and dealing with change and stress.	A, B, C, D, E												P
155		**FIRE 175 GENERAL ADMINISTRATIVE FUNCTIONS FOR COMPANY OFFICERS - CO 2B**													
156	CSLO 1	Explain a fire organization's purpose and mission.	A, B, C, D, E				CAN		C						
157	CSLO 2	Differentiate unit level administrative functions, completing reports and logs, and maintaining files in accordance with policy.	C, D												
158	CSLO 3	Analyze and compare capital, operating and personnel costs for the fire service.	C, E												P
159	CSLO 4	Identify primary revenue sources used by the fire service.	E												
160		**FIRE 176 FIRE INSPECTIONS AND INVESTIGATION FOR COMPANY OFFICERS - CO 2C**													
161	CSLO 1	Outline a given occupancy and identify construction, alarm, detection, and suppression features that contribute to or prevent the spread of fire, heat and smoke.	A, C, E				CAN		C						
162	CSLO 2	Develop an occupancy pre-incident plan.	A, E												P
163	CSLO 3	Analyze and determine fire origin and cause.	A, C, E												
164	CSLO 4	Demonstrate life-safety inspection of assigned occupancy.	A, C, E												
165		**FIRE 177 ALL-RISK COMMAND OPERATIONS FOR COMPANY OFFICERS - CO 2D**													
166	CSLO 1	Describe the principles of command.	C, E												
167	CSLO 2	Evaluate emergency scene conditions and determine tactical priorities.	A, D				CAN		CAN						
168	CSLO 3	Identify national, state and local resources available for mitigation of emergencies.	D, E												
169	CSLO 4	Construct a post incident analysis.	A, C												P

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170	CSLO 5	Dramatize incident actions on various emergency situations.	A, C, D, E												
171		**FIRE 178 WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS - CO 2E**													
172	CSLO 1	Analyze and size up a wildland incident.	A, C, D, E												P
173	CSLO 2	Formulate and incident action plan.	A, C, D				CAN		CAN						
174	CSLO 3	Determine appropriate fire suppression actions when deploying resources.	A, B, D, E												
175	CSLO 4	Explain mop-up and extinguishment procedures.	A, C, D												
176	CSLO 5	Demonstrate, through simulation, the ability to implement a plan of action and to manage initial actions at a WUI incident.	A, C, D, E												
177		**FIRE 179 INSTRUCTIONAL METHODOLOGY - INSTRUCTOR I**													
178	CSLO 1	Define the role of the Instructor I.	B, C				C								
179	CSLO 2	Construct and outline a lesson plan.	C, D												
180	CSLO 3	Assemble and deliver cognitive and psychomotor lesson plans.	C, D												
181	CSLO 4	Develop and administer oral, written and performance tests.	C, D										P		
182		**FIRE 180 INSTRUCTIONAL DEVELOPMENT - INSTRUCTOR II**													
183	CSLO 1	Formulate a technical lesson plan to include: learning objectives, outline, course materials, instructional aids, and an evaluation plan.	A, C												P
184	CSLO 2	Demonstrate how to conduct a class using a lesson plan that was prepared by the instructor using multiple teaching methods.	C, D						CAN						
185	CSLO 3	Develop student evaluation instruments that evaluate performance in an objective, reliable and verifiable manner.	A, D, E												
186		**FIRE 190 HUMAN RESOURCE MANAGEMENT FOR CHIEF FIRE OFFICERS - 3A**													
187	CSLO 1	Describe the human resource requirements related to the roles and responsibilities of a Chief Fire Officer.	A, B, C			CAN		C							
188	CSLO 2	Apply the requirements of the California Firefighters Procedural Bill of Rights Act to the roles and responsibilities of the Chief Fire Officer.	D, E											P	
189		**FIRE 191 BUDGET AND FISCAL RESPONSIBILITIES FOR CHIEF FIRE OFFICERS - 3B**													

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190	CSLO 1	Develop a fire service budget management system to keep the division or department within the budgetary authority.	C, E												
191	CSLO 2	Outline a divisional or fire service departmental budget.	C, E			CAN		C							
192	CSLO 3	Describe the agency's process for ensuring competitive bidding, including developing requests for proposal (RFPs) and soliciting and awarding bids.	C, E											P	
193		**FIRE 192 GENERAL ADMINISTRATIVE FUNCTIONS FOR CHIEF FIRE OFFICERS - 3C**													
194	CSLO 1	Design a fire and safety community risk reduction program.	A, B, C, E												
195	CSLO 2	Develop a life safety program based on legislation, public education or a new fire safety code.	A, B, C, E											P	
196	CSLO 3	Analyze and interpret fire records and data.	A, B, C, E					C							
197		**FIRE 193 EMERGENCY SERVICE DELIVERY RESP. FOR CHIEF FIRE OFFICERS - 3D**													
198	CSLO 1	Develop a plan for integrating fire services resources in the community's emergency management plan, ensuring that the role of the fire service complies with local, state/provincial, and national requirements.	A, C, E												
199	CSLO 2	Prioritize multiple resources and supervise their deployment in accordance with the incident action plan and agency policies and procedures.	A, E					C							
200	CSLO 3	Prepare an incident action plan for an operational period, determining, assigning, and placing the required resources to mitigate the incident, and applying strategies and tactics according to agency policies and procedures and incident objectives.	A, B, C, E												
201	CSLO 4	Develop and conduct a post-incident analysis in order to identify and communicate all required critical elements, and complete and process appropriate forms in accordance with policies and procedures.	A, C, D, E											P	
202		**FIRE 241 I-200: INCIDENT COMMAND SYSTEMS**													
203	CSLO 1	Describe and explain the basic terminology used in the Incident Command System.	C, E								P				
204	CSLO 2	Investigate the use of branches, divisions, and groups within the Operations Section and provide supervisory titles associated with each level.	C, E		P										
205	CSLO 3	Create an ICS organization appropriate to a small incident using an Incident Briefing form.	A, C, D, E												
206	CSLO 4	Determine the need for proper incident resource management.	A, C, E												

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207		**FIRE 242 I-300: INTERMEDIATE ICS FOR EXPANDING INCIDENTS**		Enter "X" in boxes as appropriate											
208	CSLO 1	Analyze how ICS fits into the Command and Management component of NIMS.	A, C, E												
209	CSLO 2	Explain relationships and information flow within the fire service.	C, E						C						
210	CSLO 3	Diagram the process for developing incident objectives, strategies, and tactics.	C, E												
211	CSLO 4	Explain the basic principles of resource management within the fire service.	A, C, E												P
212	CSLO 5	Compare and contrast the differences between planning for incidents and events within the fire service.	A, C, E												
213															
214		**FIRE 243 I-400: ADVANCED ICS FOR COMPLEX INCIDENTS**													
215	CSLO 1	Describe the issues that influence incident complexity and the tools available to analyze complexity.	A, D, E								P				
216	CSLO 2	Explain the major steps for planning a fire service event.	A, E												
217	CSLO 3	Describe the four expansion options for incident/event organization and the conditions under which they would be applied.	A, C, E												
218	CSLO 4	Analyze the major steps in the planning process.Explain the differences between Area Command, Unified Command, and multi-agency coordination entities.	A, D, E		P										
219															
220															
221		**FIRE 608 BASIC STRUCTURAL FIREFIGHTER**													
222	CSLO 1	Differentiate between various fire service organizations and their roles and responsibilities.	E,												
223	CSLO 2	Analyze fire ground safety and apply personal protective equipment to the emergency.	A, E							P					
224	CSLO 3	Operate basic firefighting suppression equipment and tools.	A, D, E												
225	CSLO 4	Describe and demonstrate correct techniques and procedures of salvage and overhaul.	A, D, E												
226															

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
4				***Year 1***		***Year 2***		***Year 3***		***Year 4***		***Year 5***		***Year 6***	
5				F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
227		**FIRE 618 FIRE CONTROL 4A AND 4B-FLAMABLE GASES AND LIQUIDS**		Enter "X" in boxes as appropriate											
228	CSLO 1	Compare and contrast the properties and characteristics of flammable gases and liquids.	C, E												
229	CSLO 2	Outline tactics to use on a flammable gas leak and flammable liquid spill not involved with fire, and leaks of spills involved with fire.	A, C, E												P
230	CSLO 3	Demonstrate proper techniques to extinguish flammable gas and liquid fires.	A, C, E						CAN						
231															
232		**FIRE 632 AUTO EXTRICATION**													
233	CSLO 1	Develop a plan to appropriately mitigate a vehicle accident scenario, outlining each step from arrival to termination.	A, C, D, E				C								
234	CSLO 2	Explain potential safety hazards to victims and rescuers when operating at the scene of an auto accident.	A, C, D, E												
235	CSLO 3	Demonstrate the use of various auto extrication tools.	A, C, D, E										P		
236															
237		**FIRE 634 DRIVER OPERATOR 1A-EMERGENCY VEHICLE OPERATION**		Enter "X" in boxes as appropriate											
238	CSLO 1	Differentiate between recognized standards and related laws for fire apparatus.	A, B, C, E,												
239	CSLO 2	Analyze information and techniques on basic inspections, documentation, maintenance, and troubleshooting of fire apparatus.	A, D, E					C							
240	CSLO 3	Demonstrate the techniques to increase driving skills during simulated driving conditions.	D, E											P	
241		**FIRE 635 DRIVER/OPERATOR 1B-PUMP OPERATIONS**													
242	CSLO 1	Describe various types of fire service pumps and the theory of pump operation.	D, E,					C							
243	CSLO 2	Explain methods of performing basic hydraulic calculations to determine engine and nozzle pressure.	A, D, E												
244	CSLO 3	Demonstrate basic inspections, documentation, maintenance, and troubleshooting of fire pumps.	A, D, E											P	
245		**FIRE 637 CONFINED SPACE AWARENESS**													
246	CSLO 1	Critique codes that affect operations within confined spaces.	A, D, E												
247	CSLO 2	Differentiate between permitted and non-permitted confined spaces.	A, D							P					
248	CSLO 3	Explain the hazards of confined spaces.	A, D												
249		**FIRE 638 LOW ANGLE ROPE RESCUE OPERATION**													
250	CSLO 1	Describe the conditions of a typical low angle rope rescue incident.	A, D, E						C						

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4				***Year 1***		***Year 2***		***Year 3***		***Year 4***		***Year 5***		***Year 6***	
5				F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
251	CSLO 2	Compare and contrast the different types of low angle rope rescue situations and the hazards associated with them.	A, D												P
252	CSLO 3	Explain the process and reasons for conducting a post incident critique and debriefing.	C												
253		**FIRE 639 ETHICAL LEADERSHIP IN THE CLASSROOM**													
254	CSLO 1	Define the basic concepts, terms, and principles of ethical decision-making processes.	A, B, C, E				C								
255	CSLO 2	Identify situations that may lead to an ethical dilemma.	A, B, C, E												
256	CSLO 3	Apply techniques to resolve ethical dilemmas.	A, B, C, E										P		
257		**FIRE 640 HAZARDOUS MATERIALS TECHNICIAN 1A, BASIC CHEMISTRY**													
258	CSLO 1	Differentiate between chemical compounds in terms of general categories and classifications.	A, D						C						
259	CSLO 2	Identify the physical and chemical properties and the differences between pure substances and mixtures.	A, D												
260	CSLO 3	Identify symbols, names of elements, and atomic numbers on a periodic table.	A, D												P
261	CSLO 4	List the names of four families and describe their hazards.	A, D,												
262		**FIRE 641 HAZARDOUS MATERIALS TECHNICIAN 1B, APPLIED CHEMISTRY**		Enter "X" in boxes as appropriate											
263	CSLO 1	Identify and explain the 9 hazard classifications and the hazards associated with each.	A, D												
264	CSLO 2	Explain why the incompatibility of chemicals is important to know for first responders.	A, D							P					
265	CSLO 3	Demonstrate the use of hazardous material detection equipment.	A, D, E	C											
266															
267		**FIRE 642 HAZARDOUS MATERIALS TECHNICIAN 1C, INCIDENT CONSIDERATIONS**													
268	CSLO 1	Compare and contrast various protective action measures associated with hazardous materials emergencies.	A, D		C										
269	CSLO 2	Explain risk considerations when selecting proper respiratory protection for various hazardous material emergencies.	A, D												
270	CSLO 3	Identify the differences in using ICS for a structure fire as compared to a hazardous materials emergency.	A, D, E								P				
271	CSLO 4	List the types of shipping papers and the location they can be found during transportation of hazardous materials.	A, D, E												
272		**FIRE 643 HAZARDOUS MATERIALS TECHNICIAN 1D, TACTICAL FIELD OPERATIONS**													
273	CSLO 1	Explain the human stresses associated with wearing chemical protective clothing.	A, D												

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4				***Year 1***		***Year 2***		***Year 3***		***Year 4***		***Year 5***		***Year 6***	
5				F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
274	CSLO 2	List the operational situations which may exceed the limitations and capabilities of resources at a hazardous materials emergency.	A, D, E								P				
275	CSLO 3	Outline the key principles to manage a hazardous materials emergency.	A, D, E		C										
276															

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4				***Year 1***		***Year 2***		***Year 3***		***Year 4***		***Year 5***		***Year 6***	
5				F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
277		**FIRE 644 HAZARDOUS MATERIALS SPECIALIST 1F**		Enter "X" in boxes as appropriate											
278	CSLO 1	Explain the need for effective medical monitoring of emergency personnel at a hazardous materials emergency.	A, D							P					
279	CSLO 2	List the reporting and documentation requirements for a hazardous materials emergency.	D, C												
280	CSLO 3	Demonstrate ability to evaluate a hazardous materials emergency and initial a mitigation plan.	A, D, E											P	
281	CSLO 4	Explain how to identify an unknown hazardous material.	A, D, E												
282		**FIRE 645 HAZARDOUS MATERIALS SPECIALIST 1G**													
283	CSLO 1	Explain how to appropriately identify and mitigate a leaking hazardous material for various types of containers.	A, D, E												
284	CSLO 2	Demonstrate how to transfer various types of hazardous materials from one container to another.	A, D, E							P					
285	CSLO 3	Identify standards and expectations pertaining to safety at a hazardous materials emergency.	A, C, D, E												
286		**FIRE 650 RESCUE SYSTEMS 1**													
287	CSLO 1	Explain California Urban Search and Rescue requirements.	A, C, D, E												
288	CSLO 2	Describe how to lift and move heavy objects.	A, B, C, D, E												
289	CSLO 3	Explain breaking and breaching, and various shoring methods	A, C, E							P					
290	CSLO 4	Describe ladder rescue systems.	A, C, E												

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			Year 1		***Year 2***		***Year 3***		***Year 4***		***Year 5***		***Year 6***
			F 2016	S 2017	F 2017	S 2018	F 2018	S 2019	F 2019	S 2020	F 2020	S 2021	F 2021	S 2022
	Total Number of Courses (from last number assigned)		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Total Number of CSLOs (manually enter)													
	Number of CSLOs Assessed Per Semester (per formula)		0	0	0	0	0	0	0	0	0	0	0	0
	Percentage of CSLOs Assessed (per formula)		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Number of Courses Assessed Per Semester (manually enter)													
	Percentage of Courses Assessed (per formula)		**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**	**#REF!**