OFFICE OF THE STATE FIRE MARSHAL
STATEWIDE TRAINING AND EDUCATION ADVISORY COMMITTEE
DEPARTMENT OF FORESTRY AND FIRE PROTECTION
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Date: October 18, 2013 Attachment 6

To: Ronny J. Coleman, Chairman
Statewide Training and Education Advisory Committee
c/o State Fire Training

From: Rodney Slaughter, Deputy State Fire Marshal, Specialist III

Subject/Agenda Action Item: Hybrid-Internet Course Evaluation

Recommended Actions: My recommendation is that STEAC establish a subcommittee to evaluate hybrid course delivery for updated curriculum as they become available.

Background Information:

In October 17, 2008, STEAC accepted the "Company Officer Internet/Hybrid Beta Test Final Report" from Alan Hancock College. In that report a matrix was developed that identified topics in each of the approved courses and if they should be taught in the classroom or could be taught via distance learning (internet). The college has gone on to continuously offer on-line courses that were approved for Hybrid delivery.

Analysis/Summary of Issue:

State Fire Training has developed an application and business process allowing ARTP's to delivery Hybrid training. The classes that have been approved by SFT for Hybrid delivery include; Fire Command 1A, 1B, 1C; Fire Management 1, Fire Prevention 1A and 1B and Training Instructor 1A, 1B and 1C. All of these courses have been recently updated and are about to be released. Analyzing these courses for hybrid delivery goes beyond the scope of work for the contract with CSU, Sacramento and the scope for the curriculum cadres. Community Colleges are interested in immediately adopting the updated courses for hybrid delivery as soon as they are released. A STEAC sub-committee would be in a good position to determine if new courses can be adopted and approved for hybrid delivery using the attached matrix as a guide.

The STEAC Hybrid subcommittee should consist of those agencies that use hybrid delivery and a member of SFT staff. The chair of the committee should be selected among the subcommittee members and will report their findings back to STEAC.

Appendix A

CFSTES Fire Officer Classes Classroom\Internet Matrix

I-300: INTERMEDIATE ICS (1994) FSTEP					
	Course Content	**Time**	**C**	**D**	**Rationale**
1	NWCG NFES 2452 Module 7	5			
2	NWCG NFES 2454 Module 8	5		X	
3	NWCG NFES 2456 Module 9	4		X	
4	NWCG NFES 2458 Module 10	4			
5	NWCG NFES 2460 Module 11	8		X	
C: Classroom **D: Distance**		**27:00 Total Hours** **This class has not been approved for internet delivery**			
FIRE COMMAND 1A: COMMAND PRINCIPLES FOR COMPANY OFFICERS (1995) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
1	Orientation and Administration	1:30		X	
2	The Learning Process	0:15		X	
3	Fire Command Overview	0:30		X	
4	Fire Chemistry	0:30		X	
5	Fire Phases	0:45		X	
6	Effects of Time	0:30		X	
7	Fire Behavior within Structures	0:30		X	
8	Extinguishing Agents	0:30		X	
9	Water Application	0:45		X	
10	Protection Systems	1:00		X	
11	Building Construction	0:45		X	
12	Occupancy Types	0:15		X	
13	Pre-Fire Planning	0:30		X	
14	Fire Data	0:15		X	
15	Local Resources	0:15		X	
16	State and Federal Resources	0:15		X	
17	Fireground Safety	0:30		X	
18	Size-up	1:00		X	
19	Strategy, Tactics, and Methods	0:30		X	
20	Report on Conditions	0:15		X	
21	Role of the First-In Officer	0:45		X	
22	Company Operations	0:15		X	
23	Determining Resources Requirements	0:30		X	
24	Apparatus Placement	0:30		X	
25	Initial Fire Attack	0:30		X	
26	Management Overview	0:30		X	
27	The Fire Service	0:30		X	
28	The Company Officer	0:30		X	
29	Pressure of Command	0:45		X	
30	Performance Standards	1:15		X	
31	Levels of Emergency	0:15		X	
32	Decision Making	1:00		X	
33	Communications	0:30		X	
34	Management by Objectives (MBO)	0:30		X	
35	Divisions of Fire Fighting	0:45		X	
36	Command/Control Components	0:45		X	
37	Simulation Overview	1:00	X		
38	Skull Session Exercises	3:00	X		
39	Simulator Use	12:00	X		
40	Daily Reviews	2:00		X	
41	Course Review and Certification Exam	1:00		X	
C: Classroom 16 hours **D: Distance 24 hours**		**40:00 Total Hours**			

FIRE COMMAND 1B: INCIDENT MANAGEMENT FOR COMPANY OFFICERS (1998) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
Unit 1: Course Overview and ICS Review					
1	Orientation and Administration	1:00		X	
2	Course Overview	1:00		X	
3	Fire Command 1A Review	2:00		X	
4	Concepts of ICS Organization	3:00		X	
Unit 2: Multi-Casualty Incidents					
1	Components of Triage and START	2:00		X	
2	ICS and EMS Multi-Casualty	1:30		X	
3	ICS-MCI Implementation Overview	1:30		X	
Unit 3: Hazardous Materials Incidents					
1	Hazardous Materials Overview	0:30		X	
2	Properties of Hazardous Materials	1:00		X	
3	Toxicology	0:30		X	
4	Site Control/Work Zones	0:30		X	
5	Evacuation Considerations	1:00		X	
6	Decision-Making Process	0:30		X	
7	ICS & The Hazardous Materials Incident	1:30		X	
Unit 4: Wildland Fire Incidents					
1	Factors Affecting Wildland Fires	2:00		X	
2	Defensive and Offensive Strategies in Wildland Fire Fighting	0:30		X	
3	Use of Direct and Indirect Attack Methods on Wildland Fires	1:00		X	
4	Structure Protection and Triage in Wildland Fires	2:00		X	
5	Wildland Fire Safety	1:00		X	
6	Simulation Exercises	14:00	X		
7	Course Review and Certification Exam	2:00		X	
C: Classroom 14 hours **D: Distance 26 hours**		**40:00 Total Hours**			

FIRE COMMAND 1C: I-ZONE FIRE FIGHTING FOR COMPANY OFFICERS (2004) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
Unit 1: Introduction					
1-1	Orientation and Administration	1:00		X	
1-2	Authority	0:30		X	
Unit 2: Fire Environment					
2-1	Fire Behavior and Weather	2:30		X	
2-2	Fire Prediction Systems	1:00		X	
Unit 3: ICS					
3-1	Review of the Incident Command System	1:00		X	
3-2	Duties and Responsibilities of the Company Officer	2:00		X	
3-3	Incident Action Plan	1:30		X	
Unit 4: I-Zone Operation Principles					
4-1	Resources	3:00		X	
4-2	Communications	1:30		X	
4-3	Strategy and Tactics	1:00		X	
4-4	I-Zone Size-up	1:00	X		
4-5	Report on Conditions	2:30		X	
Unit 5: Safety and Survival					
5-1	Introduction to Safety and Survival in the I-Zone	0:45		X	
5-2	The Risk Management Process	1:00		X	
5-3	Entrapment Avoidance	0:45		X	
5-4	Last Resort Survival	1:00		X	
5-5	Properly Refusing Risk	0:30		X	
5-6	Fire Fighter Fatality and Near-miss Case Studies	4:30	X		
Unit 6: I-Zone Incident Operations					
6-1	Pre-incident Operations	2:00		X	
6-2	Incident Operations	5:00	X		
6-3	Post-incident Operations	1:00		X	
	Unit Tests	3:00		X	
	Course Review and Certification Exam	2:00		X	
C: Classroom 10.5 hours **D: Distance 29.5 hours**		**40:00 Total Hours**			

FIRE INSTRUCTOR 1A: INSTRUCTIONAL TECHNIQUES, PART 1 (1996) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
1	Orientation and Administrative Details	1:00		X	
2	Reasons for Instructor 1A	1:00		X	
3	Utilization of the Occupational Analysis	2.00		X	
4	Development of a Course Outline	2:00	1	1	Prep work online
5	Procedures Used for the Completion of a Job Breakdown	2:00	1	1	Prep work online
6	Identification of Instructional Terms	1:00		X	
7	Concepts of Learning	1:00		X	
8	Introduction to Levels of Learning	1:00		X	
9	Construction of Behavioral Objectives	2:00	X		
10	Manipulative Lesson Planning	3:00	X		
11	Qualities of a Good Instructor	1:00		X	
12	Introduction to the Psychology of Learning	1:00		X	
13	Methods Used to Evaluate Teaching Demonstrations	2:00	X		
14	Teaching Demonstrations	15:00	X		
15	The Impact of EEO and AA Programs	1:00		X	
16	The Role and Responsibilities of the Instructor	1:00		X	
17	Evaluation of Course Effectiveness	2:00		X	
18	Course Review and Certification Exam	1:00		X	
C: Classroom 24 hours **D: Distance 16 hours**		**40:00 Total Hours**			

FIRE INSTRUCTOR 1B: INSTRUCTIONAL TECHNIQUES, PART 2 (1997) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
1	Orientation and Administration	0:30		X	
2	Reasons for Fire Instructor 1B	0:30		X	
3	Course Outline Development	1:00		X	
4	Technical Lesson Plan Components	1:00		X	
5	Levels of Instruction	1:00		X	
6	Student Behavioral Objectives	2:00	X		
7	Technical Lesson Plan Development	1:30	X		
8	Introduction to Instructional Aids	1:00		X	
9	Utilization of Instructional Aids	1:30		X	
10	Introduction to Information and Activity Sheets	1:00		X	
11	Managing the Classroom Environment	0:30		X	
12	Student Application Techniques	1:30		X	
13	Methods of Technical Lesson Plan Delivery	0:30		X	
14	Introduction to Evaluation and Testing	1:00		X	
15	Utilization of Evaluation Tools	1:00		X	
16	Introduction to Test Construction	1:30		X	
17	Methods Used to Evaluate Teaching Demonstrations	0:30	X		
18	Teaching Demonstrations	16:00	X		
19	Administrative Details (Quizzes, Daily Review, Student Assistance)	5:00		X	
20	Course Review and Certification Exam	1:30		X	
C: Classroom 20 hours **D: Distance 20 hours**		**40:00 Total Hours**			

FIRE INVESTIGATION 1A: FIRE ORIGIN & CAUSE DETERMINATION (1996) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
1	Orientation and Administration	1:00		X	
2	Introduction to Fire Investigation	1:00		X	
3	Fire Behavior	4:00		X	
4	Legal Aspects of Fire Investigation	3:00		X	
5	Arson Law	1:00		X	
6	Fire Scene Documentation	1:00		X	
7	Point of Origin Determination	4:00	3	1	Prep work online
8	Accidental Ignition Sources	3:00	2	1	Prep work online
9	Electrical Ignition Sources	2:30	X		
10	Arson Fire Indicators	4:00	3	1	Prep work online
11	Incendiary Devices	1:00		X	
12	Structure Fire Investigation	4:30	3:30	1	Prep work online
13	Vehicle Fire Investigation	2:00		X	
14	Wildland Fire Investigation	4:00		X	
15	Explosions	2:00		X	
16	Course Review and Certification Exam	2:00		X	
C: Classroom 14 hours **D: Distance 26 hours**		**40:00 Total Hours**			

FIRE MANAGEMENT 1: MANAGEMENT/SUPERVISION FOR COMPANY OFFICERS (2000) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
Unit 1 – Introduction					
1-1	Orientation and Administration	1:00		X	
5-1	Introduction to Management & Supervision	1:30		X	
Unit 2 – Supervision					
2-1	Principles of Organizations and Organizational Structure	1:00		X	
2-2	Motivation	2:00		X	
2-3	Delegation	1:00		X	
2-4	Problem Solving/Decision Making	1:30		X	
2-5	Verbal Communication	2:00		X	
2-6	Written Communication	1:00		X	
2-7	Group Dynamics	2:00	X		
2-8	Managing Conflict	1:00	X		
2-9	Performance Evaluations	1:30	X		
2-10	Coaching, Counseling & Progressive Discipline	1:30	X		
2-11	Due Process	1:00		X	
5-2	Grievance Handling	1:00	X		
Unit 3 – Management					
5-3	Internal and External Influences	2:00		X	
3-1	Elements of Management	2:00		X	
3-2	Managing Change	1:00		X	
5-4	Time Management	1:30		X	
Unit 4 – Leadership					
4-1	Basic Views of Leadership	1:00		X	
4-2	Situational Leadership	1:00		X	
5-5	Leadership Qualities and Traits	1:00		X	
Unit 5 – Human Relations					
5-6	Managing The Workplace Environment	2:00	1	1	Prep work online
5-7	Affirmative Action, Equal Employment Opportunity, and ADA	1:30		X	
Unit 6 – Safety and Wellness Programs					
6-1	Safety Management	1:30		X	
6-2	Stress Management and Wellness	1:00		X	
6-3	NFPA 1500 Standard	1:00		X	
Unit 7 – Laws, Standards, and Liability					
6-4	Liability of The Company Officer	1:00		X	
	Quizzes	2:00		X	
	Course Review & Certification Exam	1:30		X	
C: Classroom 8 hours **D: Distance 32 hours**		**40:00 Total Hours**			

FIRE PREVENTION 1A: INTRODUCTION TO THE CALIFORNIA FIRE CODE (2003) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
Unit 1: Responsibility and Authority					
1-1	Orientation and Administration	2:00		X	
1-2	Terminology Relating to Responsibility and Authority	0:30		X	
1-3	Legally Established Responsibilities and Empowerment	1:30		X	
1-4	Legal Responsibilities of The Inspector	2:00		X	
1-5	Understanding, Reading, and Using The California Fire Code	2:00		X	
Unit 2: Occupancy Classification and Types of Construction					
2-1	Terminology Relating to Occupancy Classification and Construction	2:00		X	
2-2	Building Construction Classifications	1:30		X	
2-3	Relationship of Fire Protection to Building Construction & Occupancy	1:00		X	
2-4	Classification of Occupancies	3:00		X	
Unit 3: Egress Requirements					
3-1	Terminology Relating to Egress	1:00		X	
3-2	Determining Adequate Means of Egress	2:00		X	
3-3	Means of Egress Requirements	3:00		X	
3-4	Maintaining The Egress System	1:00		X	
Unit 4: Fire-Resistive Assemblies					
4-1	Terminology Relating to Fire-Resistive Assemblies	0:30		X	
4-2	Types of Classes & Roof Coverings	1:00		X	
4-3	Purpose & Location of Fire Rated Building Construction &Components	2:00		X	
4-4	Fire Doors and Windows	0:30		X	
Unit 5: General Fire Safety Provisions					
5-1	General Fire Safety	1:30		X	
5-2	Fire Safety Requirements for Decorative Materials & Furnishings	1:00		X	
5-3	Fire Drills and Emergency Evacuation Plans	0:30		X	
5-4	High-Piled Storage Requirements	1:00		X	
5-5	Electrical Fire Hazards & Safety Devices	1:00		X	
Unit 6: Principles and Procedures for Fire Inspections					
6-1	Factors Relating to Life Safety	2:00		X	
6-2	Conducting a Life Safety Assessment	1:30		X	
6-3	General Fire Inspection Practices	1:30		X	
6-4	Procedures for Correcting Fire Hazards and Modifications of Requirements	1:30		X	
6-5	Handling Fire Prevention Complaints	0:30		X	
	Course Review & Certification Exam	1:30		X	
C: Classroom 0 hours **D: Distance 40 hours**		**40:00 Total Hours**			

FIRE PREVENTION 1B: Introduction to the California Fire Code (2003) CFSTES					
	Course Content	**Time**	**C**	**D**	**Rationale**
Classroom 0 hours Online 40 hours					
Unit 1: Introduction to Fire Prevention 1B					
6-6	Orientation and Administration	2:30		X	
Unit 2: Flammable and Combustible Liquids and Gases					
2-1	Flammable and Combustible Liquids Terms and Characteristics	1:00		X	
2-2	Acceptable Containers for Flammable and Combustible Liquids	0:30		X	
2-3	Introduction to Material Safety Data Sheets	0:30		X	
2-4	Inside Storage of Flammable and Combustible Liquids	1:00		X	
2-5	Outside Storage of Flammable and Combustible Liquids	1:00		X	
2-6	Dispensing, Using, Mixing, and Handling Flammable and Combustible Liquids	1:30		X	
2-7	Properties of Compressed, Cryogenic, and Liquefied Gases	1:00		X	
2-8	Fire Hazards of Compressed and Liquefied Gases	1:00		X	
2-9	Procedures for Inspecting Motor Vehicle Dispensing Stations	0:30		X	
2-10	Procedures for Inspecting LPG Occupancies	0:30		X	
2-11	Procedures for Inspecting Flammable Finish Application Occupancies	1:00		X	
2-12	Methods for Controlling Ignition Sources and Explosive Atmospheres	1:00		X	
Unit 3: Hazardous Materials and Explosives					
3-1	Hazardous Materials Terms & Characteristics	1:00		X	
3-2	Sources of Technical Information on Hazardous Materials	0:30		X	
3-3	Regulating Hazardous Materials	0:30		X	
3-4	Introduction to Hazardous Materials Management Plan (HMMP)	0:15		X	
3-5	Storage and Transfer Practices of Compressed and Liquefied Gases	1:00		X	
3-6	Hazards of Explosives and Fireworks	1:00		X	
3-7	Storage of Hazardous Materials	1:00		X	
3-8	NFPA 704 Identification Systems	0:15		X	
3-9	Classification By Hazard	0:30		X	
3-10	Inspection of The Incidental Use, Handling, & Storage of Hazardous Materials	1:00		X	
Unit 4: Portable Fire Extinguishers					
4-1	Portable Fire Extinguisher Classifications	0:00		X	
4-2	Portable Fire Extinguisher Placement	0:30		X	
4-3	Procedures for Inspecting Portable Fire	0:30		X	

	Extinguishers				
Unit 5: Special Fixed Fire Suppression Systems					
5-1	Fixed Fire Protection Systems	1:00		X	
5-2	Procedures for Inspecting Fixed Fire Protection Systems	1:00		X	
5-3	Procedures for Inspecting Commercial Cooking Equipment	0:30		X	
Unit 6: Detection and Alarm Systems					
6-1	Detection and Alarm Systems Terms and Characteristics	0:30		X	
6-2	Fire Alarm System Components	0:45		X	
6-3	Fire Alarm Signaling System Classifications	0:30		X	
6-4	Procedures for Inspecting Fire Alarm Systems	0:30		X	
6-5	CFC Requirements for Fire Alarm Systems	0:15		X	
Unit 7: Water-Based Fire Protection Systems					
7-1	Water-Based Fire Protection Systems Terms and Characteristics	1:00		X	
7-2	Water Supply Systems	0:30		X	
7-3	Sprinkler Systems Benefits, Limitations, and Design	0:30		X	
7-4	Types of Sprinkler Systems	1:00		X	
7-5	Sprinkler System Components	1:00		X	
7-6	Procedures for Inspecting Sprinkler Systems	1:00		X	
7-7	Procedures for Conducting Tests on Wet-Pipe Sprinkler Systems	0:30		X	
7-8	Procedures for Conducting Tests on Dry-Pipe Sprinkler Systems	0:30		X	
7-9	Characteristics of Standpipe Systems	1:00		X	
7-10	Procedures for Inspecting Standpipe Systems	1:00		X	
	Unit Tests	3:00		X	
	Course Review and Certification Exam	2:00		X	
C: Classroom 0 hours **D: Distance 40 hours**		**40:00 Total Hours**			