

SHS ROP WILDLAND FIRE INSTRUCTION PLAN DETAIL

Date	Day	Lesson Plans	Course Content	Learning Outcomes	Method of Instruction	Validation
8/22/12	Day 1	S-130 Unit 0 Lesson A (House keeping only)	Introduction & Ground Rules		Lecture	
8/23/12	Day 2		Ground Rules-Hose Rolling		Lecture/Field Exercise	Performance
8/24/12	Day 3		Washing Engine		Lecture/Field Exercise	Performance
8/27/12	Day 4	S-130 Unit 0 Lesson B	Terminology	1) Identify nine parts of a fire 2) Define nine fire behavior terms 3) Discuss five other useful firefighting terms 1) Name the four primary wildland fire suppression agencies in California 2) Know the entry level positions for each agency and how to apply for them. 3) Know fire service shift patterns, work conditions and benefits 4) List other government agencies involved with fire protection	Lecture/PowerPoint	Written Quiz
8/28/12	Day 5	CAL Fire Mission and Organization 4301.1	Wildland Agencies & Job Opportunities		Lecture/PowerPoint	Oral Quiz
8/29/12	Day 6	School Ethics code; Representative Fire Department Ethics	Fire Service and School Ethics	1) Student will know SHS Ethics code 2) Student will know common fire service ethic code objectives	Lecture/Handouts	Group Assignment
8/30/12	Day 7	S-130 Unit 1	Gear Issue	1) Student will explain accountability for personnel and agency property.	Lecture/Handouts	Written Quiz
8/31/12	Day 8		Hike		Field Exercise	Performance
9/4/12	Day 9			1) Describe the Firefighters Chain of Command 2) Define an Incident and describe how the incident management structure is organized. 3) Describe the General responsibilities in each section of the Incident Command System 3)Name the two positions above the Firefighter in the chain of command.		
9/5/12	Day 10					
9/6/12	Day 11					
9/7/12	Day 12	I-100/S-130 Unit 2	Basic ICS		Lecture/PowerPoint	Online Test
9/10/12	Day 13	I-100/S-130 Unit 2 & 3	Basic ICS/Resource Types	1) Explain different types of crew organizations commonly used in initial attack and extended attack. 2) The student will list and describe the criteria used to classify the different types of fire apparatus.	Lecture/PowerPoint	Written Test

9/11/12	Day 14	I-100/S-130 Unit 2	Basic ICS	1) As a group, students will create a vision statement for the class. 2) Students will participate in an interview for Squad Leaders for student work squads.	On Line Test	
9/12/12	Day 15		Course Vision Statement		Lecture	Group Assignment
9/13/12	Day 16		Course Vision Statement/Interviews	1) The student will confirm a knowledge of Hydration and Hydration practices	Lecture	Written Quiz
9/14/12	Day 17	CAL Fire Lesson Plan/S-130 Unit 1	Hydration/Hike	1) Identify and discuss the three sides of the fire triangle 2) Identify the environmental factors of fuels, weather and topography 3) Describe the contributing factors that indicate the potential for increased fire behavior that may compromise safety that affect the start and spread of wildland fire.	Lecture/PowerPoint	Written Quiz
9/17/12	Day 18					
9/18/12	Day 19					
9/19/12	Day 20					
9/20/12	Day 21					
9/21/12	Day 22	S-190 Introduction to Wildland Fire Behavior	Fire Chemistry/Wildland Fire Behavior	1) Identify the common denominators on tragedy fires 2) Given a scenario, identify the appropriate Watch Out Situations 3) Apply the appropriate Standard Firefighting Orders to minimize the potential for serious injury or death	Lecture/PowerPoint	Written Quiz
9/24/12	Day 23					
9/25/12	Day 24					
9/26/12	Day 25	S-130 Unit 4A	Watch Outs and Fire Orders/Common Denominators	1) Given a scenario, identify Look Up, Down and Around indicators using the Incident Response Pocket Guide. 2) Identify the three steps in the Risk Management Process that are directly related to the Look Up, Down and Around indicators	Lecture/PowerPoint	Written Quiz
9/27/12	Day 26					
9/28/12	Day 27					
10/1/12	Day 28					
10/2/12	Day 29	S-133 (S-130 Unit 4B)	Look up, Down, Around	1) Students will understand the concepts surrounding human performance in high risk work environments 2) Students will gain a common vocabulary regarding human performance. 3) Students will be able to communicate	Lecture/PowerPoint	Written Quiz
10/3/12	Day 30					
10/4/12	Day 31					
10/5/12	Day 32					
10/8/12	Day 33					
10/9/12	Day 34					

10/10/12	Day 35	L180	Human Factors in Wildland	professional responsibilities to address human performance issues.	Lecture/PowerPoint	Written Quiz
10/11/12	Day 36		Field Trip	Students will visit Wildland Fire Suppression facilities		
10/12/12	Day 37	CAL Fire 4305.1	Wildland PPE	The student will identify the components, uses, and limitations of wildland personal protective ensemble including how it can fall under fire conditions	Lecture	
10/15/12	Day 39					
10/16/12	Day 40					
10/17/12	Day 41					
10/18/12	Day 42					
10/19/12	Day 43	S-130 Unit 4C	Wildland Fire Shelter	<ol style="list-style-type: none"> 1) Explain the two most important functions of the fire shelter. 2) Discuss the inspection and care of the fire shelter. 3) Discuss the last resort survival options. 4) Discuss entrapment and deployment site. 5) Demonstrate the correct deployment procedures for the fire shelter in 25 seconds or less. 	Lecture/Video/Manipulative Exercise	Written Quiz/Skill Tes
10/22/12	Day 44					
10/23/12	Day 45	CAL Fire 4306.6	Entrapment Avoidance	Student will describe methods of avoiding fire entrapment and will be able to describe what to do if trapped by fire.	Lecture/Video	Group Exercises
10/24/12	Day 46		Handtools Classroom	<ol style="list-style-type: none"> 1) Given hand tools, personal protective equipment, and proper maintenance tools, check the condition of each item, perform field maintenance, and identify those needing replacement. 2) Demonstrate the proper sharpening techniques for commonly used tools. 3) Given a description of three fire line jobs and a choice of 		
10/25/12	Day 47		Handtools Field			
10/26/12	Day 48					
10/29/12	Day 49					
10/30/12	Day 50		Fire Line Construction			
10/31/12	Day 51					

11/11/12 Day 52	S-130 Unit 6	Fire Line Construction Field Trip	<p>tools, state the tool that would be used for each job.</p> <p>4) Demonstrate the proper methods of carrying and passing tools.</p> <p>5) Demonstrate the proper spacing when using hand tools.</p> <p>6) Demonstrate the proper placement, near a fire line, of one or more tools when not in use.</p>	Lecture/Video	Manipulative Exercise
11/21/12 Day 53		Hand Tool Quiz	<p>1) Given a backpack pump and a source of water, demonstrate how to properly operate and maintain the pump.</p> <p>2) Correctly identify common hose components and accessories.</p> <p>3) Describe the process of correctly unrolling hose.</p> <p>4) Use a hose clamp and/or field-expedient method to restrict water flow in a charged line.</p> <p>5) Describe and demonstrate the two hose lay methods.</p> <p>6) Correctly identify the water use hand signals.</p> <p>7) Demonstrate the nozzle settings for straight</p>		
11/5/12 Day 54		Use of Water - Classroom			
11/6/12 Day 55					
11/7/12 Day 56					
11/8/12 Day 57					
11/9/12 Day 58					
11/13/12 Day 59					
11/14/12 Day 60					
11/15/12 Day 61					

	S-130 Unit 8/CAL Fire	Use of Water - Field	<p>stream and fog spray.</p> <p>8) Describe a fire situation when the straight and fog spray nozzle water streams would be used.</p> <p>9) Describe three protective measures for hose and fittings when in use or being transported.</p> <p>10) Describe four hazards to hose lays.</p> <p>11) Retrieve deployed hose using two methods: i.e., watermelon roll, firefighters' carry, figure 8.</p> <p>12) Identify and mark non-serviceable sections of hose and couplings.</p>	Lecture/Video	Manipulative Exercise
11/16/12	Day 62				
11/26/12	Day 63				
11/27/12	Day 64				
11/28/12	Day 65				
11/29/12	Day 66		<p>1) Describe three methods for breaking the fire triangle.</p> <p>2) Describe three methods of attack on a fire.</p> <p>3) List three suppression techniques and describe their uses.</p>		

		S-130 Unit 9	Suppression	<p>4) Describe the backline concept.</p> <p>5) Describe four kinds of fire control line.</p> <p>6) Name four threats/hazards to an existing control line when fire is burning inside the line.</p> <p>7) Describe the proper follow-up procedures for a dozer or tractor plow fireline.</p> <p>8) Describe two kinds of coordinated crew techniques used for fireline construction and with at least four additional personnel, construct a fireline utilizing these techniques.</p> <p>9) Describe safety procedures to follow when in an area where retardant/water drops are being made.</p> <p>10. Describe five safety procedures to follow when working around engines, tractor plows, and dozers.</p> <p>11. Demonstrate the proper use of appropriate hand tools during fire suppression activities.</p> <p>12. Demonstrate the construction of a cup trench on a steep slope.</p>	Lecture/PowerPoint	Quiz/Manipulative Ex
11/30/12	Day 67					
12/3/12	Day 68		Patrolling/Mop Up/Securing	1) Describe a systematic method of locating spot fires.		
12/4/12	Day 69	S-130 Unit 10A/11/CAL Fire	Patrolling/Mop Up/Securing	2) Describe four considerations when patrolling a fire.		
12/5/12	Day 70		Field Trip to an Extinguished Fire			

12/6/12	Day 71	Unit 10B/CAL Fire	Radio Use	<ol style="list-style-type: none"> 1) Describe frequencies and how they affect radio communications. 2) List four elements of proper radio use procedures. 3) Transmit a message clearly using proper procedure and language. 4) Describe three radio trouble shooting practices used to improve radio reception or transmission. 5) Describe precautions and care to protect the radio from damage. 		
12/7/12	Day 72		Instructor Discretion	<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 		
12/10/12	Day 73		Urban Interface	<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 	Lecture/PowerPoint	
12/11/12	Day 74	S-130 Unit 14/CAL Fire	Urban Interface/Field Hike	<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 	Field Trip	
12/12/12	Day 75		Map Reading	<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 	Lecture/PowerPoint	Written Quiz
12/13/12	Day 76			<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 		
12/14/12	Day 77	S-130 Unit 16	Compass Use	<ol style="list-style-type: none"> 1) Identify the symbols depicted on a locally used map with legend. 2) Name and describe the land survey system used locally. 3) Locate a legal description of a point on a map. 4) Identify major topographic features, both in the field and on a map. 5) Demonstrate the ability to read and shoot an azimuth (bearing) off a compass. 6) Explain the importance of knowing the proper declination of an area. 7) Determine one's walking pace on flat and sloped ground in one chain and 100 foot intervals. 8) Given a compass with proper declination and a local map, determine an azimuth, distance, and be able to navigate through wildland terrain between two points. 	Lecture/PowerPoint	Quiz/Manipulative Exercise

1/17/13	Day 91	IFSTA Orientation and Terminology Chapter 6	Building Construction	1) Know the Basic construction types 2) Recognize construction practices and materials associated with structural collapse and rapid fire spread.	Lecture/Reading Assignment	Written Quiz
1/18/13	Day 92		Fire Protection System Field Trip	1) Tour downtown Sonora and apply information covered in the previous week.		Participation
1/22/13	Day 93	IFSTA Chapter 3	Fire Chemistry	1) Describe physical and chemical changes of matter related to fire.		
1/23/13	Day 94	IFSTA Chapter 3	Fire Chemistry	2) Discuss modes of combustion, the fire triangle, and the fire tetrahedron. 3) Explain the difference between heat and temperature. 4) Describe sources of heat energy. 5) Discuss the transmission of heat. 6) Explain how the physical states of fuel affect the combustion process. 7) Explain how oxygen concentration affects the combustion process. 8) Discuss the self-sustained chemical reaction involved in the combustion process. 9) Describe common products of combustion. 10) Distinguish among classifications of fires. 11) Describe the stages of fire development within a compartment.		Written Quiz
1/24/13	Day 95	IFSTA Chapter 3	Fire Chemistry		Lecture/PowerPoint	
1/25/13	Day 96	CAL Fire 4307.36, 4308.2	Hydrants/Medium and Large Diameter	1) Identify and describe the different types of medium and large diameter hoselays used to overcome fireground fire flow problems.	Lecture	Written Quiz
1/28/13	Day 97		Explorer Interviews			
1/29/13	Day 98		Fire Streams	1) List methods that are used with fire streams		

1/30/13	Day 99	IFSTA Chapter 14	Fire Streams	to reduce the heat from a fire and provide protection to firefighters and exposures. 2)Distinguish among characteristics of fire stream sizes 3)Discuss types of streams and nozzles. 4)Discuss types of streams and nozzles	Lecture/PowerPoint	Written Quiz
1/31/13	Day 100		Structure Fire Strategy and Tactics	1)Describe the responsibilities of an initial attack incident commander on a structure fire. 2)Describe tactics, priorities, and related considerations for combating structure fires. 3)Describe the essential factors and considerations in developing fireground strategy	Lecture	Written Quiz
2/1/13	Day 101	CAL Fire 4321.1,2,3	Structure Fire Strategy and Tactics			
2/4/13	Day 102	CAL Fire 4321.4, 4321.4.1	Structure Fire Safety: RIC, Two in-Two Out	1)Describe safety hazards present at structure fires and the methods for minimizing these hazards. 2)The student will confirm a knowledge of what the Two In – Two Out rule is and when to apply it	Lecture	Written Quiz
2/5/13	Day 103	CAL Fire 4305.3	Structure Fire Personal Protective Clothing/Structure Gear Issue	1)Identify the components, uses, and limitations of structural personal protective ensemble including how it can fail under fire conditions	Lecture	Written Quiz
2/6/13	Day 104			1)List the four common respiratory hazards associated with fire and other environments		

2/7/13	Day 105	IFSTA Chapter 5	SCBA	<p>respirators will meet and meet criteria/criteria</p> <p>2)Distinguish among characteristics of respiratory hazards.</p> <p>3)Describe physical, medical, and mental factors that affect the firefighter's ability to use respiratory protection effectively.</p> <p>4)Describe equipment and air-supply limitations of SCBA</p> <p>5)Discuss effective air management</p> <p>6)Distinguish among characteristics of air-purifying respirators, open-circuit SCBA, and closed-circuit SCBA.</p> <p>7)Describe basic SCBA component assemblies.</p>	Lecture/PowerPoint	Written Quiz
2/8/13	Day 106	CAL Fire 4305.5,6	SCBA Inspection and Cleaning	<p>1) Describe procedures to clean and sanitize breathing apparatus</p> <p>2)Describe inspection procedures for Self-Contained Breathing Apparatus</p>	Lecture/Demonstration	Written Quiz
2/12/13	Day 107		Donning SCBA/Columbia College Air Support Orientation	<p>Given a MSA Firehawk MMFR SCBA with integrated PASS device, a facepiece, Placed on the ground, bottle side down, full structural fire personal protective clothing, with fire protective hood pulled down around the neck inside the turn out coat; the student will don and remove the SCBA, using the over the head method, under simulated fire conditions with a minimum 80% accuracy, within 1 minute and 15 seconds, according to the job breakdown</p>	Demonstration	Manipulative Perform:
2/13/13	Day 108	Donning SCBA				
2/14/13	Day 109					
2/15/13	Day 110					
2/19/13	Day 111	SCBA Testing				
2/20/13	Day 112	CAL Fire 4305.7,5	SCBA Testing/Donning Structure PPE			
2/21/13	Day 113		SCBA Testing/Donning Structure PPE			
2/22/13	Day 114		Rescue Drill			
2/25/13	Day 115			<p>1)List general hose loading guidelines.</p> <p>2)Describe common hose loads.</p> <p>3)Describe hose load finishes.</p> <p>4)Discuss reconnected hose loads for attack lines.</p>		
2/26/13	Day 116					
2/27/13	Day 117					
2/28/13	Day 118					

3/1/13	Day 119	IFSTA Chapter 13	Hose Bedding and Coupling	<p>5) List guidelines when laying hose. 6) Describe the basic hose lays for supply hose. 7) Demonstrate the ability to bed both supply and attack lines using common techniques</p>	Lecture/Demonstration	
3/4/13	Day 120					
3/5/13	Day 121					
3/6/13	Day 122					
3/7/13	Day 123					
3/8/13	Day 124		Flashover Field Trip			
3/11/13	Day 125			<p>1) Describe reasons for fireground ventilation 2) List considerations that affect the decision to ventilate. 3) Discuss factors that are taken into account when deciding the need for ventilation. 4) Discuss vertical ventilation. 5) List safety precautions to observe when undertaking vertical ventilation. 6) List warning signs of an unsafe roof condition. 7) Discuss roof coverings and using existing roof openings for vertical ventilation purposes. 8) Discuss ventilation considerations for various types of roofs. 9) Describe trench or strip ventilation. 10. Explain procedures for ventilation of a conventional basement.</p>		
3/12/13	Day 126					
3/13/13	Day 127	IFSTA Chapter 11	Ventilation		Lecture/PowerPoint	Written Quiz

3/14/13	Day 128	IFSTA Chapter 10	Ladders	<ol style="list-style-type: none"> 1) Describe parts of a ladder. 2) Describe types of ground ladders used in the fire service. 3) Discuss materials used for ladder construction. 4) Discuss ladder maintenance and cleaning. 5) Summarize items to check for when inspecting and service testing ladders. 6) Summarize factors that contribute to safe ladder operation. 7) Discuss selecting the proper ladder for the job. 8) Summarize items to consider before removing and replacing ladders on apparatus. 9) Describe proper procedures to follow when lifting and lowering ground ladders. 10) Describe various types of ladder carries. 11) Explain proper procedures for positioning ground ladders. 12) Explain precautions to take before raising a ladder. 	Lecture/PowerPoint/ Manipulative Exercise	
3/15/13	Day 129					
3/18/13	Day 130					
3/19/13	Day 131		Ladders			
3/20/13	Day 132					
3/21/13	Day 133					
3/22/13	Day 134					
4/1/13	Day 135	IFSTA Chapter 17	Salvage/Fire Loss	<ol style="list-style-type: none"> 1) Explain the philosophy of loss control. 2) Discuss planning and procedures for salvage operations. 3) Describe salvage covers, salvage cover maintenance, and equipment used in salvage operations. 4) Summarize basic principles of salvage cover deployment. 5) Summarize methods used to catch and route water from fire fighting operations and cover openings using salvage covers. 	Lecture/PowerPoint	Written Quiz
4/2/13	Day 136		Structure Fire Skills	<ol style="list-style-type: none"> 1) Perform with competency forward supply 		

4/3/13	Day 137		Structure Fire Skills	lay, Attack line deployment and SCBA use	Manipulative Exercise	Written Quiz
4/4/13	Day 138		Structure Fire Skills			
4/5/13	Day 139		Structure Fire Skills			
4/8/13	Day 140		Structure Fire Skills			
4/9/13	Day 141		Structure Fire Skills			
4/10/13	Day 142		Structure Fire Skills			
4/11/13	Day 143		Structure Fire Skills			
4/12/13	Day 144	CAL Fire 4317.2	Extinguisher	1)Describe common extinguisher types and their uses. 2)Recognize the correct fire extinguisher for use on the material that is burning. 3)Demonstrate common fire extinguisher operation	Lecture/PowerPoint	Written Quiz
4/15/13	Day 145	CAL Fire 4320.12	Mobile Attack	1)Describe when to use and how to safely conduct mobile attack operations. 2)Demonstrate how to safely and effectively mobile attack for a distance of 100 feet and cool down a hot spot under simulated fire ground conditions, using an over the hip drag and carry method.	Lecture/Manipulative Exercise	
4/16/13	Day 146	CAL Fire 4320.13	One Person Hose Lay	1) The student shall make a 300' progressive hoselay from a clearly marked anchor point while applying a continuous wet line. The student will then break down and quickly return all hose, brass, and clamp to the engine during simulated fire conditions, completing all operations according to the job breakdown with a minimum of 80% accuracy, within 10 minutes according to the score sheet.		
4/17/13	Day 147					
4/18/13	Day 148					
4/19/13	Day 149					
4/22/13	Day 150		Mobile Attack/One Person Hose Lay			
4/23/13	Day 151					
4/24/13	Day 152					
4/25/13	Day 153					
4/26/13	Day 154					
4/29/13	Day 165					
4/30/13	Day 166					

5/1/13	Day 167		Handline/Hose Lay				
5/2/13	Day 168						
5/3/13	Day 169						
5/6/13	Day 170		Handline/Hose Lay				
5/7/13	Day 171		Field Trip				
5/8/13	Day 172						
5/9/13	Day 173		Handline/Hose Lay				
5/10/13	Day 174						
5/13/13	Day 175						
5/14/13	Day 176						
5/15/13	Day 177		Make-up Curriculum				
5/16/13	Day 178						
5/17/13	Day 179						
5/20/13	Day 180						
5/21/13	Day 181						
5/22/13	Day 182		Make-up Curriculum				
5/23/13	Day 183						
5/24/13	Day 184						