



































Mendocino College  
Cooperative Work Experience Education







**Fire Science (FSC 196)-Occupational Work Experience  
LEARNING OBJECTIVES**











Objective	Outcome Measurement	Learning Process	FORMS	
			Word	PDF
To be able to successfully train a probationary firefighter to drive and maneuver a fire engine.	My instruction plan and techniques will be approved by my supervisor. The probationary FF's feedback regarding my training technique will be positive. The probationary fire fighter will obtain a class "B" drivers license and successfully complete the department's 15 month driving test.	I will review the instructor techniques in the Fire Service Instructors manual and apply them while I instruct the probationary. If a challenge in communication or my ability to convey the information arises, I will seek help from my supervisor for a more effective way to communicate. I will create an evaluation form for the Probationary Firefighter to fill out when he completes his driving test and 15 month test. I will review his comments with my supervisor for feedback on how to improve my instructional abilities		
To be proficient at using and understanding the new GPS unit on our Fire Engine.	My supervisor shall sign me off as being proficient with using and understanding the GPS unit.	I will read the instruction manual. I will also seek help from some of our Field Observers who are very proficient with the GPS units. I will then practice with the GPS unit until I am able to operate it accurately and efficiently, without need of assistance.		
To acquire a basic understanding of the Incident Command System	Passing ICS-100 and ICS-200 exams, and certificates of completion.	Study all instructional materials relevant to the courses. I will discuss my understanding of the materials with my supervisor and/or co-workers. I will take sample exams and review the results with my supervisor		
To acquire an advanced understanding of the Incident Command System	I will receive a certificate indicating I successfully completed ICS-300 training.	I will study all material on the web based training site. I will watch educational videos through the Media Center. I will complete all		









		quizzes and exams associated with the training, and I will discuss with my supervisor and/or co-workers any areas or concepts that I am having difficulty with.		
To acquire an advanced understanding of the Incident Command System	I will receive a certificate indicating I successfully completed ICS-400 training.	I will study all material on the web based training site. I will watch educational videos through the Media Center. I will complete all quizzes and exams associated with the training, and I will discuss with my supervisor and/or co-workers any areas or concepts that I am having difficulty with.		
To develop the knowledge and skills to become an active member of FEMA CATF-4 Urban Search and Rescue team. (California Task Force 4)	My supervisor will sign off that I have obtained such status.	I will participate in monthly training drills in areas such as swift water rescue, building collapse, and search dog training. I will make adjustments in my approach based on the feedback I receive. I will read all materials provided to me by the trainers and/or my supervisor.		
To accurately and efficiently repair a chainsaw with a blow cylinder head.	I will be able to accurately and efficiently repair the chainsaw with assistance. My supervisor will sign off when the saw is operational.	I will review the chainsaw's owner/operator manual. I will tear down a chainsaw and replace the old cylinder head under direction of another Engineer. I will replace all the gaskets and reassemble the saw. I will repeat this process until I am able to do so without assistance.		
To be able to recall where all the streets are in my new district	I will complete a map test, provided to me by my supervisor, with an 80% level of accuracy.	Through studying the map books and by driving the district. I will have blank map pages and fill in all streets as I learn them.		
To be able to complete our Fire Prevention major drill using new inspection equipment.	I will be signed off by my supervisor as having completed the drill accurately and efficiently.	I will receive instruction from members of our Fire Prevention Bureau. I will observe how to use the new equipment and how to enter inspection data into the system. I will then use the equipment under observation and make adjustments in my technique		







		based on the feedback I receive.		
To prepare myself for an emergency/fire dispatch in a rapid and efficient manner.	I will be able to don full structure gear including SCBA in less than the minimum time required of all firefighters. I will also be able to name the various parts of the gear and their functions when asked. My supervisor will evaluate my performance and knowledge through recording timed drills and question and answer sessions.	I will be taking an in-house academy and instruction from firefighters and paramedics at my place of employment. I will observe firefighters operating the equipment and replicate their actions by utilizing it myself. I will analyze the process, and my own performance to ascertain how I can decrease my effective readiness time once I have the basic knowledge.		
To accurately use the Mobile Data Computer (MDC) on Santa Rosa Fire Department engines and trucks.	I shall demonstrate to my supervisor that I have learned how to operate the MDC's. My supervisor will sign me off as being proficient with using and understanding the MDCs.	I shall find and read all SRFD information on their use. This will include, but not limited to, Standard Operating Procedures (SOP's), Special Notices (SN's) and any SRFD on-line training that I may find. I will also observe others in using the MDC's. I will be observed by my supervisor or other experienced users while I demonstrate my skill, and I will make adjustments in my learning process based on the feedback I receive.		
To accurately use SRFD's Fire RMS report program.	I shall demonstrate to my supervisor that I've learned how to use the Fire RMS program. I will accurately and efficiently run reports, day logs, and enter individual training information without need of assistance. My supervisor will sign me off as being proficient in using and understanding the Fire RMS program.	I will find and read all SRFD information on the Fire RMS program. This will include Standard Operating Procedures (SOP's) and Special Notices (SN's). I will observe others in using the Fire RMS program, I will be observed by my supervisor or other experienced users while I demonstrate my use of the program, and I will make adjustments in my approach based on the feedback I receive.		
To accurately use the Infrared Mass Spectrometer on Haz-Mat 10.	I will demonstrate to my supervisor that I have learned how to operate it. My supervisor will sign me off as to being proficient in using the Infrared Mass	I will read all Standard Operating Procedures (SOP's), Special Notices (SN's) and any literature regarding Haz-Mat team members. I will demonstrate my use of the unit under		

	Spectrometer. I will also make a laminated quick reference card as an aid for others to use.	observation, and I will make adjustments in my approach based on the feedback I receive.		
To accurately input SPFD fire inspection information into the new computer program.	I will demonstrate to my supervisor that I have learned how to input fire inspection information into the program. My supervisor will sign me off as to being proficient in inputting information.	I will find and read all information on the new fire inspection program. This will include Standard Operating Procedures (SOP's), Special Notices (SN's) and any SRFD on-line training information. I will also speak with Fire Inspectors that are currently using the program. I will observe others that are familiar with inputting this information. I will be observed by my supervisor or another experienced user while I demonstrate the skill. I will make adjustments in my approach based on the feedback I receive.		
To use the "LifePak 12" defibrillator/monitors beyond routine use. This is to include pacing, cardio version and transmitting 12-lead strips.	I will demonstrate to my supervisor my ability to perform pacing, cardioversion and transmitting 12-lead EKG's. My supervisor will sign me off as to being proficient in the use of the "LifePak 12". I will also make a laminated quick reference card and place it in the "LifePak 12" for others to use.	I will read any SRFD information that I can find. I will also seek out information from Coastal Valleys EMS Agency and Physio Control (manufacture) web sites. I will observe others in using the LifePak 12, I will be observed by my supervisor or an experienced user while I demonstrate my skill, and that I will make adjustments in my approach based on the feedback I receive.		
To accurately and efficiently complete the "Bubble Form" part of the Patient Care Report.	The number of returned "Bubble Forms" will be significantly lower then what I currently get returned. My supervisor will sign me off as to having fewer forms returned. I will provide the EMS website with an instructional PowerPoint slide show demonstrating the accurate way to complete the "Bubble Form".	I will read all SRFD information on "Bubble Forms. I will seek out information from Coastal Valleys EMS agency and Sonoma Life Support. I will draft a PowerPoint slide show on the proper way to fill out the "Bubble Form" for my supervisor's review, and make adjustments based on the feedback I receive.		
To be able to recognize two new infectious diseases.	I will show my supervisor that I have an understanding of the signs and	I will review information from SRFD, Coastal Valley EMS Agency and Sonoma County		

<p>Methicillin-Resistant Staphylococcus (MRSA) and Norovirus that SRFD is currently coming across.</p>	<p>symptoms, transmission of infection (and how to avoid infection) and the treatment of Methicillin-Resistant Staphylococcus (MRSA) and Norovirus. My supervisor will sign me off as having an understanding of these infectious diseases. My PowerPoint slide show will be added to SRFD EMS web site for others to learn from.</p>	<p>Disease Control. I will also look for information on-line. I will draft a PowerPoint slide show for my supervisor’s review, and make adjustments based on the feedback I receive.</p>		
<p>To better understand which paramedic drugs are used for 60 different protocols, including lesser used drugs and protocols.</p>	<p>I will demonstrate to my supervisor which drugs are used in each of the 60 different protocols, including seldom used drugs and seldom used protocols. My supervisor will sign off on my being proficient in knowing which drugs are used for each protocol. The drug protocol chart will be added to SRFD EMS web page for others to learn from.</p>	<p>I will review the Coastal Valleys EMS agency protocol book and also the on-line protocols. I will draft a chart showing which drug is used for each protocol and review this with my supervisor. I will make adjustments based on the feedback I receive.</p>		
<p>To become proficient in the use of both mobile and portable radio operations.</p>	<p>I shall demonstrate to my supervisor that I have learned how to operate the Santa Rosa Fire Department mobile and portable radios specific to: knowledge of the REDCOM Manual and Standard Operating Procedures (SOP’s); use of proper terminology; channel and bank selection; scan programming; priority add and deletes; and ton//repeater selection procedures. This learning experience will meet the objectives outlined in the Santa Rosa Fire Departments Acting Captain’s check off list under the “Radio Operation” section.</p>	<p>I will read the REDCOM manual, all REDCOM and Santa Rosa Fire Department Standard Operating Procedures (SOP’s) and Special Notices (SN’s) related to communication practices and radio operation. I will observe my supervisor demonstrate the proper use of radio operations and listen to the county wide REDCOM frequency in order to become familiar with proper radio use. I will demonstrate my skills while being observed and evaluated by my supervisor and I will make adjustments in my leaning process based on the feedback I receive.</p>		
<p>To accurately and efficiently use 20 key Spanish phrases and 50</p>	<p>I will have a list of 20 phrases and 50 words. I will receive positive feedback</p>	<p>After discussing terminology with my supervisor, I will make a list of the phrases</p>		

<p>words related to my job.</p>	<p>from my supervisor and Spanish-speaking co-workers. My Captain will test me and sign off that I am able to use the words and phrases accurately.</p>	<p>and words I would like to learn. I will study the phrases and words and memorize them. I will make flashcards and study them so that I can say them, and also recognize when repeated back to me. I will use the words and phrases in the workplace, and make corrections in my usage based on the feedback I receive.</p>		
<p>To be proficient in the use of self-contained breathing apparatus or SCBA</p>	<p>By improved times donning and doffing, and completing manipulative portion of refill training to be compliant with department standards. I will also provide a written paper on my research of SCBA that is approved by my supervisor</p>	<p>I will read all material provided to me on SCBA by my supervisor. I will observe skilled co-workers don and doff SCBA, and refill air tanks. I will practice these skills under observation, and make adjustments in my approach based on the feedback I receive.</p>		
<p>To become proficient in the use of hand and power tools for salvage, ventilation and overhaul for firefighting.</p>	<p>I will be drilled on my knowledge of basic building construction, efficiency with various hand and power tools and fire behavior in relation to different ventilation techniques. My effectiveness will be demonstrated, and progress will be reported by my training officer.</p>	<p>I will read the SOP for the equipment, and observe others operate the equipment. I will operate the equipment under the observation of skilled co-workers, and make adjustments in my approach based on the feedback I receive.</p>		
<p>To become proficient in the use of ladders for firefighting ventilation and advanced rescue techniques.</p>	<p>I will demonstrate my skills with ladders to the satisfaction of my training officers.</p>	<p>I will participate in twelve hours of theory and manipulative training. I will read all materials provided to me relevant to the topic. I will conduct research as needed. I will observe others in the use of ladders. I will use ladders under the observation of skilled co-workers, and make adjustments in my approach as needed.</p>		
<p>To become proficient in auto-extrication for rescue/firefighting operations.</p>	<p>I will demonstrate my skills with auto extrication equipment and processes to the satisfaction of my training officers.</p>	<p>I will participate in twelve hours of theory and manipulative training. I will read all materials provided to me relevant to the topic. I will conduct research as needed. I will observe others perform auto extrication</p>		

		procedures. I will perform auto extrication procedures under the observation of skilled co-workers, and make adjustments in my approach as needed.		
To prepare and run the hydraulic equipment in a timely manner	I will run the hydraulic equipment accurately, effectively and efficiently (appx. 4 minutes.), according to the department's standards, as observed by my supervisor.	I will read the SOP for the equipment, and observe others operate the equipment. I will operate the equipment under the observation of skilled co-workers, and make adjustments in my approach based on the feedback I receive.		
To effectively perform the duties of the "Hydrant Firefighter" as per Standard Operating Procedures on a Dry Lay, Wet Lay, and Garden Lay.	I will perform a Dry Lay, Wet Lay, and Garden Lay accurately, efficiently and effectively, according to the department standard, as observed by my supervisor.	I will read the SOP for the procedures, and observe others perform the procedures. I will perform the procedures under the observation of skilled co-workers, and make adjustments in my approach based on the feedback I receive.		
To set up a pulley system or "rig" (3:1) and perform a changeover to 5:1 system.	I will perform the necessary actions accurately, efficiently and effectively, according to the department standards, as observed by my supervisor.	I will read the SOP for the equipment and procedure, and observe others perform the procedures. I will perform the procedures under the observation of skilled co-workers, and make adjustments in my approach based on the feedback I receive.		
To operate the aerial ladder.	I will operate the ladder accurately, efficiently and effectively, according to the department standards, as observed by my supervisor.	I will read the SOP for the equipment and procedure, and observe others operate the ladder. I will operate the ladder under the observation of skilled co-workers, and make adjustments in my approach based on the feedback I receive.		

<p>I will improve my training in operational risk management, situational awareness, appropriate strategy, accountability, effective communications, and pre-fire planning.</p>	<p>I will provide the department with a training plan on these topics, approved by my supervisor. I will conduct at least one training on the topic.</p>	<p>I will attend a post incident critique of the Sofa Super Store fire in Charleston, SC. I will take the information received at the seminar and discuss with my supervisor how this can be integrated into the department SOPs. I will draft a training plan for my current and future crew members on the topics, which will be reviewed by my supervisor. I will modify the training plan based on the feedback I receive.</p>		
<p>To improve the physical condition of myself and my crew</p>	<p>I will have an approved fitness plan which will be implemented during each work cycle. Evaluations completed by trainees will be positive.</p>	<p>I will complete our monthly online physical fitness courses, and use station library stretching and resistance training manuals to create a workout routine. I will incorporate diet, lifestyle, and workout techniques into a plan for increased fitness, which will be reviewed by the training captain. I will make changes in the plan based on feedback that I receive.</p>		
<p>To reinforce and update my knowledge of hazardous material response tactics.</p>	<p>The evidence will be in the successful completion of the Target Safety courses, including exams, and my skill with HazMat responses as observed by my supervisor and co-workers.</p>	<p>I will utilize our online training program to complete my required monthly HazMat Training. In addition I will practice using the DOT Guidebook, and review my department's SOP's.</p>		
<p>To increase and update my knowledge of Advanced Life Support Procedures as applied in my role as a Paramedic</p>	<p>The objective will be measured by my successful completion of our required monthly online training courses, and quarterly EMS Major Drill Evaluation Process. Furthermore, I will assist with modifying the Coastal Valley EMS "Versed Administration Protocol".</p>	<p>I will complete the Target online Safety courses and exams, participate in the EMS Major Drills, and study the current protocols. I will also continue my involvement in revising and updating the Versed Administration Protocol, with our EMS division and the medical director of Coastal Valley EMS.</p>	