

Fire Technology Assessment Plan Rev. 9/16/2018

Fire Technology	16-17	17-18	18-19	19-20	20-21	21-22
<b>FIREB1 - Fire Protection Organization</b>						
• Upon completion of the course, the student will be able to list the educational requirements, duties, and information sources for various occupations in fire protection.						P
• Upon completion the student will be able to: Define the basic concepts of fire as a chemical reaction, the major phases of fire, and the main factors that influence fire spread and fire behavior.						P
• Upon completion the student will be able to: Analyze the effects of fire on the environment and the historical efforts made to protect society against unwanted fire.	C					P
• Upon completion the student will be able to: Identify the types of common fire department apparatus, equipment, and personal safety equipment used for fire fighting.		C				
• Upon completion the student will be able to: Identify the various codes, standards, ordinances, and regulations that affect fire protection and the functions of a fire prevention bureau.			P			
• Upon completion the student will be able to: Define fire fighting strategy and tactics.			P			
• Upon completion the student will be able to: Describe the elements of fire fighter safety and survival.			P			
<b>FIREB2 - Principles of Fire and Emergency Services Safety and Survival</b>						
• Upon completion of the course, the student will be able to define and describe the need for cultural and behavioral change within the emergency services relating to safety, incorporating leadership, supervision, accountability and personal responsibility.			P			
• Define how the concepts of risk management affect strategic and tactical decision-making.		C				
• Describe and evaluate circumstances that might constitute an unsafe act.			P			
• Explain the concept of empowering all emergency services personnel to stop unsafe acts.		C				
<b>FIREB3 - Fire Command, Strategy, &amp; Tactics</b>						
• Upon completion of the course, the student will be able to demonstrate (verbally & written) knowledge of fire behavior and the chemistry of fire.					P	P
• Articulate the main components of pre-fire planning and identify steps during a pre-fire plan review.					P	P
• Recall the basics of building construction and how they interrelate to pre-fire planning.	C				P	P
• Recall major steps taken during size-up and identify the order in which they will take place at an incident.	C	C				
• Recognize and articulate the importance of fire ground communications.			P			
• Identify and define the main functions within the ICS system and how they interrelate during an incident.			P			
• Given different scenarios, the student will set up an ICS, call for appropriate resources and bring the scenario to a mitigated or controlled conclusion.			P			
<b>FIREB4 - Fire Behavior and Combustion</b>						
• Upon completion of the course, the student will be able to Identify physical properties of the three states of matter.			P			P
• Upon completion the student will be able to: Recall the physical and chemical properties of fire.			P			P
• Upon completion the student will be able to: Describe the fire tetrahedon.	C					P
• Upon completion the student will be able to: Define and use basic terms and concepts associated with the chemistry and dynamics of fire.		C				
• Upon completion the student will be able to: Discuss the various states of matter and their relationship to fire as fuel.			P			

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<b>FIREB5 - Fire Prevention</b>						
• Upon completion of the course, the student will be able to demonstrate an understanding of the purpose of fire prevention and the codes and laws that authorize its existence.						P
• Demonstrate an understanding of how a fire prevention bureau functions.						P
• Develop an increased awareness of fire hazards and methods of correcting these hazards.						P
• Describe the origin and history of fire prevention efforts in the United States.			P			
• Explain and identify principles and procedures to correct fire hazards.			P			
• Identify occupancies and building construction types.			P			
• Explain basic exiting requirements.				P		
• Identify the relationship between fire safety and education and fire prevention.				P		
• Identify hazards of use, storage and transfer of flammable liquids, gases and other toxic material.				P		
<b>FIREB6 -Fire Protection Equipment and Systems</b>						
• Upon completion of the course, the student will be able to demonstrate an understanding of basic types of fire protection equipment and systems.						P
• Compare smoke and fire movement in various types of construction and the relationship to systems and equipment.						P
• Define types, classifications, and effectiveness ratings of fire extinguishers.						P
• Identify water supply requirements, distribution systems, and testing for public and private fire protection.				P		
• Identify and list types, components, and operation of automatic and special sprinklers systems.				P		
<b>FIREB7 - Building Construction for Fire Protection</b>						
• Upon completion of the course, the student will be able to Define occupancy designations of the building code.						P
• Name the construction classifications that correspond to designated occupancies.						P
• Differentiate between the loads that are placed on a building and describe each type of load.	C					P
• List and compare the structural members on various types of construction.		C				
• Define flame spread, it's hazards, contributing factors and possible solutions.				P		
<b>FIREB25A - Wildland Fire Behavior</b>						
• Upon completion the student will be able to:Students will be able to differentiate influences effecting fire behavior.			P			P
• Upon completion the student will be able to: Students will distinguish the tools to make spot fire behavior predictions.			P			P
• Upon completion the student will be able to: Students will categorize the elements of the Campbell Prediction System.			P			P
<b>FIREB25B - Wildland Firefighter Safety and Survival</b>						
• Upon completion the student will be able to:Apply the Ten Standard Fire Orders to a fire senario.						P
• Upon completion the student will be able to: Identify and predict fire weather behavior and initiate aproppriate actions.						P
• Upon completion the student will be able to: Analyze current fire weather conditions.						P
• Upon completion the student will be able to: Determine safety zones and escape routes.			P			
• Upon completion the student will be able to: Locate and set up lookouts on a fire.			P			

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<b>FIREB25C - Wildland Fire Operations</b>						
• Upon completion the student will be able to: Formulate a strategy for controlling small wildland fires.						P
• Upon completion the student will be able to: Assess conditions and specify correct aircraft loading and off loading procedures.						P
• Upon completion the student will be able to: Evaluate hazardous fireline situations and propose actions for them.						P
• Upon completion the student will be able to: Identify and utilize the contents of an incident assignment kit.			P			
• Upon completion the student will be able to: Select the best method of attack on a given fire.			P			
• Upon completion the student will be able to: Identify escape routes and analyze their outcomes.			P			
<b>FIREB25D - Wildland PIO, Prvntn/Invstgtn</b>						
• Upon completion the student will be able to: Describe the role of the public information officer in overall incident organization.						P
• Upon completion the student will be able to: Distinguish between the duties of a public information officer in Type 1, 2, and 3 incidents.						P
• Upon completion the student will be able to: Identify the benefits of cooperative agreements in fire prevention.						P
• Upon completion the student will be able to: Interpret fire danger indexes to determine Fire Danger Rating.			P			
• Upon completion the student will be able to: Identify and inspect spark arrestors.			P			
• Upon completion the student will be able to: Identify the equipment required to conduct an investigation.			P			
<b>FIREB25E - Wildland Fire Logistics, Finance, and Planning</b>						
• Upon completion the student will be able to: Compose planning section written objectives.						P
• Upon completion the student will be able to: Assemble information for inclusion in the Incident Action Plan.						P
• Upon completion the student will be able to: Assemble information on alternative strategies.						P
• Upon completion the student will be able to: Identify and evaluate needs for specialized resources.			P			
• Upon completion the student will be able to: Prepare an operations plan for the Finance Section.			P			
• Upon completion the student will be able to: Prepare the Finance Section Unit Log (ICS Form 214).			P			
<b>FIREB26A - S-200 Initial Attack Incident Commander (ICT4)</b>						
• Upon completion the student will be able to: Student will analyze a scenario to gather essential data about a fire to lead initial attack resources.						P
• Upon completion the student will be able to: Student will formulate a size up, to plan and implement a strategy and tactics utilizing available resources.						P
• Upon completion the student will be able to: Student will be able to articulate information to a designated officer.						P
• Upon completion the student will be able to: Student will demonstrate the ability to brief and deploy initial attack resources and analyze progress to make adjustments to the plan.	C					
• Upon completion the student will be able to: Student will demonstrate the ability to maintain adequate records and participate in post fire activities with the designated officer.			P			
<b>FIREB26D - Interagency Incident Business Management S-260</b>						
• Upon completion of the course, the student will be able to articulate the rules of incident assignments to others			P			P
• Analyze and evaluate the information to complete the forms for compensation for injury			P			P
• Instruct others in the process for acquisition of equipment, supplies, and services from appropriate sources			P			P

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<b>FIREB26E - S-215 Fire Operations in the Wildland/Urban Interface</b>						
• Upon completion the student will be able to: Conduct an analysis of a wildland interface fire.						P
• Upon completion the student will be able to: Observe an incident, identify, order, and deploy necessary resources to extinguish a fire.						P
• Upon completion the student will be able to: Ability to evaluate a scenario to describe the human and environmental factors in the interface that affect decision making.						P
• Upon completion the student will be able to: Articulate agency policies relating to an Interface fires.	C					
• Upon completion the student will be able to: Articulate and describe the three operational modes.			P			
<b>FIREB26G - S-230 Crew Boss Single Resource</b>						
• Upon completion the student will be able to: Demonstrate ability to compare and contrast the roles and responsibilities of the crew boss.						P
• Upon completion the student will be able to: Demonstrate ability to organize a forms kit for an incident, select and prepare the proper forms as required.						P
• Upon completion the student will be able to: Select the proper crew tactics for an assignment						P
• Upon completion the student will be able to: Apply accepted supervision techniques to control a crew			P			
<b>FIREB26K - S-244 Field Observer</b>						
• Upon completion the student will be able to: Students will analyze a mapped incident and apply knowledge of maps and compass to negotiate the area.	C		P			
• Upon completion the student will be able to: Demonstrate ability to analyze a field area and make written reports to the proper supervisor.	C		P			
• Upon completion the student will be able to: Demonstrate ability to describe the duties and functions of the Field Observer.	C		P			
<b>FIREB26M - Display Processor</b>						
• Upon completion the student will be able to: Demonstrate ability to describe and perform the duties and functions of the Display Processor at an incident within the Incident Command System.	C		P			
• Upon completion the student will be able to: Demonstrate ability to analyze a situation and select the proper format to display incident information.	C		P			
• Upon completion the student will be able to: Demonstrate ability to select and utilize the proper symbols used in producing maps.	C		P			
• Upon completion the student will be able to: Demonstrate ability to apply technology to operate a display processor.			P			
<b>FIREB27B - 1-300 Incident Command System</b>						
• Upon completion the student will be able to: Demonstrate ability to analyze and distinguish between the responsibilities of the elements of incident objectives within each section of the Incident Command System.	C					P
• Upon completion the student will be able to: Demonstrate ability to categorize and diagram ways in which incidents are organized to ensure achievement of incident objectives.	C					P
• Upon completion the student will be able to: Demonstrate ability to articulate how the resource management process is used at an incident.	C					P
• Upon completion the student will be able to: Demonstrate ability to appraise considerations related to cost-effective resource management.			P			
• Upon completion the student will be able to: Demonstrate ability to relate the planning process to the development of incident objectives.			P			
• Upon completion the student will be able to: Demonstrate ability to formulate data and arrange entries in the Operational Planning Worksheet to illustrate the stages of resource management.			P			
<b>FIREB28B - L-280 Followership to Leadership</b>						
• Upon completion the student will be able to: Demonstrate the ability to analyze a scenario and provide leadership to a small group of people in solving a problem.	C		P			P
• Upon completion the student will be able to: Demonstrate the ability to recognize the challenges a new leader faces and apply the knowledge to deal with them.	C		P			P
• Upon completion the student will be able to: Demonstrate the ability to apply principles of team building.	C		P			P

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<b>FIREB29 - S-212 Wildland Fire Chain Saws</b>						
• Upon completion the student will be able to: Read, interpret, and articulate to others, powersaw certification policy and processes.			P			
• Upon completion the student will be able to: Verify regulatory compliance by researching powersaw operator's job performance requirements.			P			
• Upon completion the student will be able to: Troubleshoot problems and perform necessary repair and maintenance on a saw.			P			
<b>FIREB30 - RT130 Wildland Skill Refresher</b>						
• Upon completion of the course, the student will be able to describe the four core components to the RT130 course. (Entrapment avoidance, current issues, fire shelter, and other hazards and safety issues).			P			P
• Demonstrate they can properly deploy a fire shelter under simulated windy conditions.			P			P
• Describe what the definition of the acronym LACES stand for.			P			P
<b>FIREB51F - Fire Investigation 1A</b>						
• Upon completion the student will be able to: Determine the area of fire origin.			P			
• Upon completion the student will be able to: Develop an opinion of the fire cause(s).			P			
• Upon completion the student will be able to: Identify state arson laws and legal aspects of fire scene investigation.			P			
<b>FIREB51G - Training Instructor 1A</b>						
• Upon completion the student will be able to: Demonstrate understanding of instructional terms and concepts associated with vocational education and training.				P		
• Upon completion the student will be able to: Identify Benjamin Bloom and Dr. Bloom's contribution to educational development.				P		
• Upon completion the student will be able to: Select methods and techniques for educating and training students in accordance with the latest concepts in vocational education.				P		
<b>FIREB51H - Training Instructor 1B</b>						
• Upon completion the student will be able to: Construct lesson plan and demonstrate the ability to teach subject to the class.				P		
• Upon completion the student will be able to: Create evaluation instruments such as quizzes, tests and exams.				P		
• Upon completion the student will be able to: Develop and implement collateral teaching materials.				P		
<b>FIREB51J - Fire Investigation 1B</b>						
• Upon completion of the course, the student will be able to recognize scene safety for the investigator including post blast investigation.				P		
• Recognize evidence, documentation, and preservation including scene photography and trace evidence.				P		
• Identify information on witness and suspect interviewing and interrogation, including juvenile law.				P		
<b>FIREB51K - Fire Command 1C</b>						
• Upon completion the student will be able to: Describe three elements of wildland fire behavior including fuel, weather and topography.				P		
• Upon completion the student will be able to: Apply elements of the Incident Command System to a major wildland fire scenario.				P		
• Upon completion the student will be able to: Identify the Risk Management Process, and be able to describe entrapment avoidance.				P		
<b>FIREB51L - Fire Apparatus Driver Operator 1A</b>						
• Upon completion the student will be able to: Explain fire apparatus driver operator responsibilities, interpret and apply NFPA standards related to fire apparatus, and related California Vehicle laws for fire apparatus.	C			P		
• Upon completion the student will be able to: Perform basic fire apparatus inspections, document daily inspections, maintenance, and troubleshooting of fire apparatus.	C			P		
• Upon completion the student will be able to: Successfully negotiate the fire apparatus obstacle course, and proper driving techniques on positioning fire apparatus.	C			P		

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<b>FIREB51M - Fire Apparatus Driver/Operator 1-B</b>						
• Upon completion the student will be able to: Demonstrate understanding of detailed information regarding fire pump construction and theory of pump operations.			P			
• Upon completion the student will be able to: Demonstrate the ability to perform basic hydraulics calculations.			P			
• Upon completion the student will be able to: Demonstrate ability to perform and techniques on pre-trip inspections, documentation, maintenance, and troubleshooting of fire apparatus.			P			
• Upon completion the student will be able to: Perform safe pumping operation skills, during simulated pumping conditions.			P			
<b>FIREB52A - Company Officer 2A</b>						
• Upon completion of the course, the student will be able to identify different levels of certification in the Fire Officer certification track including Company Officer, Chief Fire Officer, and Executive Chief Officer.			P		P	
• Given an administrative situation requiring actions, a student will be able to apply and follow human resource policies and procedures.			P			P
• Given safety policies and procedures, a student will be able to apply safety regulations at the unit level, completing required reports, conducting in-service training, and conveying member responsibilities.	C		P			
<b>FIREB52B - Company Officer 2B</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Fire Officer certification track, the courses and requirements for Level I and II certification, Company Officer, Chief Fire Officer, and Executive Chief Officer.	C					
• Describe state and federal laws and regulations that pertain to the role of company officer.	C			P		
• Describe administrative policies and procedures, including purchasing and budget processes.	C		P			
• Describe the types and functions of external agencies that impact the community, and the purpose for establishing cooperative external agency relationships			P			
<b>FIREB52C - Company Officer 2C</b>						
• Upon completion of the course, the student will be able to identify the different levels in the Fire Officer certification track, the courses and requirements for Level I and II certification, and be able to describe the capstone task book and examination process.	C					
• Describe the AHJ's procedures for conducting fire inspections, identifying all hazards, including hazardous materials.	C			P		
• Describe fire behavior as it relates to fire spread in the various occupancies according to the current California Fire Code.	C		P			
• Describe basic fire cause and origin determination. Identify types of evidence and procedures for securing an incident scene.			P			
<b>FIREB52D - Company Officer 2D</b>						
• Upon completion of the course, the student will be able to identify and discuss the duties of a company officer level I and II, and wildland fire officer I.	C					
• Describe the standard operating procedures for emergency operations.	C			P		
• 3. Describe the elements of a post incident analysis.	C		P			
• Identify command staff and unit supervision positions within the Incident Management System.			P			

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<b>FIREB52E - Company Officer 2E</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Fire Officer certification track.	C			P		
• Describe the elements of an initial wildland fire size-up. Identify progress, changes in fuels, topography, weather, fire behavior, and other significant events.	C					
• Identify incident objectives, strategies and tactics to formulate an Incident Action Plan.	C					
• Describe agency accident and illness reporting procedures and medical protocols.	C					
• Describe policies and procedures for transfer of command and identify information for a comprehensive briefing.			P			
• Identify procedures to maintain wildland incident records documenting required information.			P			
<b>FIREB52F - Chief Fire Officer 3A</b>						
• Upon completion of the course, the student will be able to identify different levels in the Executive Chief Officer certification track, the courses and requirements for Chief Fire Officer certification.	C		P			
• Describe hiring procedure components and evaluate to ensure validity.	C			P		
• Define the requirements of the California Firefighters Procedural Bill of Rights Act as they apply to the roles and responsibilities of the Chief Fire Officer.	C					
• Identify methods to determine accident and injury prevention program effectiveness. Analyze data and accepted safety practices.			P			
<b>FIREB52G - Chief Fire Officer 3B</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Executive Chief Officer certification track.	C		P			
• Identify the types of budgeting systems.	C		P			
• Describe purchasing laws, policies, and procedures.	C		P			
<b>FIREB52H - Chief Fire Officer 3C</b>						
• Upon completion of the course the student will be able to identify the different levels of certification in the Executive Chief Officer certification track.	C		P			
• Determine agency needs for development of record management system.	C		P			
• Describe the principles involved in the acquisition, implementation, and retrieval of information and data.	C		P			
• Analyze and interpret records and data to determine validity and recommend improvements.			P			
<b>FIREB52I - Chief Fire Officer 3D</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Executive Chief Officer certification track, the courses required for Chief Fire Officer, the certification task book process, and examination process.			P			
• Describe the role of the fire service within the integrated emergency management system.			P			
• Describe the agency policies and procedures covering the movement of multiple resources.			P			
• Describe the elements of a multi-agency post-incident analysis.			P			

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<b>FIREB52J - Executive Chief Fire Officer 4A</b>						
• Upon completion of the course the student will be able to identify the different levels of Company Officer certification, the courses and requirements for Executive Chief Fire Officer certification, and be able to describe the <u>capstone task book and examination process.</u>			P			
• Determine effective recruitment, selection, and placement of human resources according to the law and consistent with current best practices.			P			
• Establish and evaluate a list of education and in-service training goals so that all members can achieve and maintain required proficiencies.			P			
• Examine an organization's incentive program and document how desired results are produced, or design a program that addresses specific organization needs.			P			
<b>FIREB52K - Executive Chief Fire Officer 4B</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Executive Chief Fire Officer certification track, including Company Officer, Chief Fire Officer and Executive Chief Fire Officer.			P			
• Describe how to project a positive image of the fire department to the community, according to the specified job performance requirements.			P			
• Describe the leadership role in community events in order to understand and respond to community needs and enhance the image of the organization.			P			
<b>FIREB52L - Executive Chief Fire Officer 4C</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Executive Chief Fire Officer certification track including Company Officer, Chief Fire Officer, and Executive Chief Fire Officer.			P			
• Describe long-range planning and fiscal projections, according to the specified job performance requirements.			P			
• Identify the elements of a comprehensive plan and conduct a comprehensive needs assessment.			P			
• Evaluate and project training requirements, facilities, and building needs to meet organization training goals.			P			
• Define risk, hazard, and value analysis methods and processes.			P			
• Develop a plan for a capital improvement project or program to educate citizens about organization needs.			P			
<b>FIREB52M - Executive Chief Fire Officer 4D</b>						
• Upon completion of the course, the student will be able to identify the different levels of certification in the Executive Chief Fire Officer certification track, including Company Officer, Chief Fire Officer, and Executive Chief Fire Officer.			P			
• Develop a comprehensive disaster plan that integrates other organization resources in order to rapidly and effectively mitigate the impact on a community.			P			
• Develop a comprehensive plan for the organization to operate at a civil disturbance, integrate with other organization actions, and provide for the safety and protection of members.			P			
<b>FIREB52N - Executive Chief Fire Officer 4E</b>						
• Upon completion of the course, the student will be able to define the Executive Chief Fire Officer Certification Process.			P			
• Describe administration of a comprehensive risk management program, according to the specified job performance requirements.			P			
• Given relevant organization data, be able to maintain, develop, and provide leadership for a risk management program to reduce injuries and property damage accidents.			P			



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<b>FIREB520 - Instructor 1-Inst. Methodology</b>						
• Upon completion of the the course, the student will be able to define the role of the Instructor 1 with regard to program management, instructional development, instructional delivery, and evaluation and testing.	C		P			
• Demonstrate methods and techniques of instruction. Present prepared lesson plans using the cognitive and psycho-motor methods.	C		P			
• Identify differences in learning styles, abilities, cultures, and behaviors, in order to accomplish lesson objectives, address disruptive behavior, and maintain a safe and positive learning environment.	C		P			
• 4.Describe test administration practices.			P			
<b>FIREB60 - Driver/Operator Certification</b>						
• Upon completion the student will be able to: Demonstrate knowledge of information on driver responsibilities, recognized DMV standards, and related laws for fire apparatus.			P			
• Upon completion the student will be able to: Demonstrate information and techniques on basic inspections, documentation, maintenance, and troubleshooting of fire apparatus.			P			
• Upon completion the student will be able to: Demonstrate information and techniques on driving and positioning fire apparatus on the fire ground.			P			
<b>FIREB62 - Fire Fighter I Academy</b>						
• Upon completion of the course, the student will be able to don a breathing apparatus and face piece within 30 seconds;						P
• Tie-off the pike pole, bottle, hose, axe and ladder for hoisting, each within one minute;						P
• Pull and advance the 1 1/2" live line within, one minute;						P
• Make a 2 1/2" forward lay connection to a hydrant, within one minute;			P			P
• Attach a hose clamp, pull a 2 1/2" supply line and connect to the suction inlet, within 1 minute;			P			
• Tie a bowline around the waist and don a breathing apparatus with face piece, in preparation for a search, within one minute;			P			
• Complete the sequential-event, agility exam of: hose pull, wall climb, breathing apparatus donning, hosepack carry, hose roll hoist, and sledge hammer swing, within four minutes;			P			
• Communicate on a portable radio, using correct incident command terminology and division locations;			P			
• Perform the ICS 100 duties in practice;			P			
• Write the rules for the safe movement and application of ladders;				P		
• Perform a 1-person, 20' ladder raise and extension within one minute;				P		
• Perform a 2-person, 30' ladder raise and extension within one minute;				P		
• Calculate the safe working load for various rescue rope applications;				P		
• Tie the clove hitch, square knot, overhand safety, figure-8 loop, quick-release half hitch, bowline, bowline-on-a-bight, 3-loop bowline, overhand bend and becket bend, each within 30 seconds;				P		
• Describe the methods of water supply and fire attack application;				P		
• Perform in-service, out-of-service, donut and self-locking donut hose rolls;				P		
• Identify and describe various hose, nozzles, fittings, appliances and tools;				P		

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<b>FIREB63 - Fire Fighter II Academy</b>						
• Upon completion of the course, the student will be able to identify and retrieve the tools and equipment commonly used to perform a special rescue (skills sheet 4-2.1).	C				P	
• Check the function and operation of smoke detectors and carbon monoxide detectors (skills sheet 5-1.3).	C				P	
• Cite the common indicators used for assessing cylinder integrity and monitoring for changing conditions (skills sheet 3-2).	C		P		P	
• Conduct a size-up and communicate an action plan to the team (skills sheet 3-3.2).			P			
• Stabilize a vehicle using cribbing and/or shoring material (skills sheet 4-1.2).			P			
<b>FIREB64 - State Fire Fighter I Academy</b>						
• Upon completion of the course, student will be able to describe basic building construction techniques, terms and features": In a short essay describe how fire affects the four basic building materials in use today.	C		P			
• "Examine the basics of chemistry and physics of fire": In an essay define and provide an example of "stratification" as it applies to structural firefighting.	C		P			
• "Demonstrate advancing fire hose lines, both charged and uncharged": Given an uncharged hose line, and using identified techniques and safety guidelines, the fire crew shall demonstrate the proper procedure to advance an uncharged hose line over a ladder	C		P			
• Practice skills associated with ladders, such as pick ups, carries, raising, lowering, leg locks, tool handling, ascending and descending ladders, and use of roof ladders": Working in a team using identified techniques and safety guidelines, students will carry, position and raise a ladder using a flat raise			P			
<b>FIREB66 - Fire Fighting Skills</b>						
• Upon completion of the course, the student will be able to tie various knots for rescue rope rigging, and explain the function of different knots.	C		P		P	
• Function safely on a wildland fire, and analyze how to determine proper escape routes on a given fire.	C		P		P	
• Properly place a Self Contained Breathing Apparatus on him or herself in a set amount of time.	C		P		P	
<b>FIREB69 - State Fire Fighter II Academy</b>						
• Upon completion the student will be able to: Describe radio communication procedures and demonstrate radio equipment operation.			P			
• Upon completion the student will be able to: Describe alternative actions related to various hazards and when to retreat.			P			
• Upon completion the student will be able to: Practice nozzle and hose selection for fire attack given different fire situations.			P			
• Upon completion the student will be able to: Describe different means to protect various types of evidence.			P			
• Upon completion the student will be able to: Analyze the uses and limitations of hand and power extrication equipment.			P			
• Upon completion the student will be able to: Describe the importance of a fire safety survey and public fire education programs to fire department public relations and the community.			P			
<b>FIREB70A - Hazardous Materials for First Responders</b>						
• Upon completion the student will be able to: Identify and analyze the presence of hazardous materials incidents, safety precautions, making proper notifications, and legal aspects.			P		P	
• Upon completion the student will be able to: Identify where to find information on scene management and the utilization of IDHA and develop action plans.			P			P
• Upon completion the student will be able to: Identify methods and utilize procedures on the proper use of hazardous materials protective equipment, containment, protective actions, decontamination, disposal and documentation.			P			
<b>FIREB70B - First Responder Operational-Decontamination</b>						
• Upon completion the student will be able to: Demonstrate an understanding of the information needed to determine which decontamination solution to use in the decontamination process.			P		P	
• Upon completion the student will be able to: Demonstrate the skills needed to safely limit the spread of contamination.			P			P
• Upon completion the student will be able to: Explain the equipment and supplies needed for a mass decontamination procedure.			P			

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<b>FIREB70C - Hazardous Materials Incident Commander/Scene Manager</b>						
• Upon completion of the course, the student will identify the laws, regulations and plans that govern an emergency response to a hazardous materials incident.			P		P	
• Demonstrate the ability to collect and interpret hazard and response information from sources such as printed reference material, databases and monitoring equipment.			P			
• Identify government and private sector resources available to assist in an emergency response to a release of hazardous materials.			P			
<b>FIREB70D - Hazardous Materials Tech/Spec 1A: Basic Chemistry</b>						
• Upon completion of the course, the student will be able to define the terms chemistry and matter, identify the three states of matter, recognize the differences between pure substances and mixtures, and recognize physical and chemical properties.	C			P	P	
• Identify the three physical forms or states of matter, distinguish the differences between chemical and physical change, list the 6 different processes that result in a physical change in state, define "exothermic" and "endothermic," and identify	C			P		P
• Identify symbols, names of elements, and atomic numbers on a periodic table; determine the logical systematic order of elements.	C			P		
<b>FIREB70E -Hazardous Materials Technician/Specialist 1B: Applied Chemistry</b>						
• Upon completion of the course, the student will be able to identify the principles of operation of Radiation Monitoring Devices.	C			P	P	
• Recognize and analyze the process of looking for contaminants in the air.	C			P		P
• Identify what colorimetric tubes, electrochemical sensors, flame ionization detectors and infrared spectroscopy are designed to detect.	C			P		
<b>FIREB70F - Hazardous Materials Tech/Spec 1C: Incident Considerations</b>						
• Upon completion the student will be able to: Define and analyze the hazardous materials incidents command concepts associated with hazardous materials response activities and positive incident outcomes, including a basic ICS organizational review, as well as a description of the hazardous materials group ICS positions descriptions, duties and responsibilities.				P	P	
• Upon completion the student will be able to: Demonstrate the utilization of methods, procedures, and equipment for decontamination.				P		P
• Upon completion the student will be able to: Demonstrate the ability to utilize chemical protective clothing while maneuvering through an obstacle course.				P		
<b>FIREB70G - Hazardous Materials Tech/Spec 1D: Tactical Field Operations</b>						
• Upon completion of the course, the student will be able to identify technical references used for providing information for product identification, chemical protective clothing selection, tactical operations and decontamination procedures.	C		P		P	
• Develop a Site Safety Plan.	C		P			
• Identify appropriate decontamination procedures.	C		P			
• Identify accepted standard operating procedures for hazardous materials incidents.			P			
<b>FIREB70H - Hazardous Materials Tech/Spec 1E: Mitigation Techniques</b>						
• Upon completion of the course, the student will be able to recognize the correct methods and procedures required to control various types of hazardous materials incidents.			P		P	
• Identify medical monitoring procedures during a hazardous materials incident.			P			P
• Identify chemical protective clothing used on hazardous materials mitigation incidents.			P			
<b>FIREB70I - Hazardous Materials Tech/Spec 1F: Advanced Field Operations</b>						
• Upon completion of the course, the student will be able to recognize safe methods and procedures while operating at hazardous materials incidents.			P		P	
• Identify methods of transferring hazardous materials between containers on hazardous materials incidents.			P			P
• Identify classification of known and unknown chemicals on hazardous materials incidents.			P			

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<b>FIREB71A - Seasonal Firefighter Basic Training 1</b>						
• Upon completion the student will be able to: Explain and demonstrate an understanding of wildland fire service organizations.			P			
• Upon completion the student will be able to: Describe and explain the environmental factors of fire behavior which affect a wildfire.			P			
• Upon completion the student will be able to: Demonstrate an understanding of important safety practices involved in wildland firefighting.			P			
<b>FIREB71B - Seasonal Firefighter Basic Training 2</b>						
• Upon completion of the course, the student will be able to identify common wildland firefighting hand tools.			P			
• Explain how to construct a fireline.			P			
• Perform an extended hose lay from a pack.			P			
<b>FIREB72A - Rescue Systems 1</b>						
• Upon completion the student will be able to: Student will demonstrate techniques to operate safely when working around the structural collapse of light frame buildings.	C				P	
• Upon completion the student will be able to: Student will demonstrate and apply information learned on the potential hazards associated with rescue operations.	C				P	
• Upon completion the student will be able to: Student will apply the information and proper techniques for lifting and moving heavy objects.	C		P		P	
• Upon completion the student will be able to: Student will demonstrate the proper techniques to break or breach building components to access victim(s) safely.			P			
• Upon completion the student will be able to: Student will apply and demonstrate the safety information and techniques learned to shore and stabilize building components.			P			
<b>FIREB72D - Swift Water Rescue</b>						
• Upon completion the student will be able to: Student will demonstrate the basic rescue techniques used to solve water rescue problems.			P			
• Upon completion the student will be able to: Student will demonstrate knowledge of the special hazards and problems in swift water rescue.			P			
• Upon completion the student will be able to: Student will identify basic skills to make safe moving water rescues.			P			
<b>FIREB72F - Auto Extrication</b>						
• Upon completion of the course, student will be able to identify the types of incidents that might be encountered and the procedures and systems used during an auto extrication.			P			P
• Identify the types of auto extrication tools and their uses.			P			
• Recognize the proper procedure for maintaining auto extrication tools.			P			
<b>FIREB72I - Emergency Medical Technician 1 Refresher</b>						
• Upon completion of the course, the student will be able to state the role and responsibilities of the EMT 1.	C		P			
• Upon completion the student will be able to: Identify basic knowledge of cardiac and respiratory emergencies and demonstrate ability to provide emergency care.	C		P			
<b>FIREB73 - Intermediate Wildland Fire Behavior S-290</b>						
• Upon completion of the course, the student will be able to Describe the interaction of fuels, weather, and topography on wildland fire behavior, fire line tactics, and safety.			P			
• Describe the causes of extreme fire behavior (long range spotting, crowning and fire whirls) developing due to weather, fuels, and/or topography.			P			
• Describe the contributing factors that indicate the potential for increased fire behavior that may compromise safety. Predict wildland fire behavior, given specific fuel, terrain and weather conditions.			P			

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<b>FIREB79 - Regional Instructor Orientation</b>						
• Upon completion of the course, student will be able to identify State Fire Training procedures for instructor registration, responsibilities, accountability, and maintenance.			P			
• Demonstrate State Fire Training procedures for course administration.			P			
• Describe the tools used to navigate the State Fire Training system successfully			P			
<b>FIREB85 - Special Topics/Fire</b>						
• Upon completion the student will be able to: Describe and demonstrate a basic understanding of the essential elements, concepts, and/or theories related to the special topic..			P			P
• Upon completion the student will be able to: Apply the essential elements, concepts, and/or theories related to the special topic.			P			P
• Upon completion the student will be able to: Perform appropriate level critical thinking and analysis related to the content of the special topic..			P			P