

**FIREFIGHTER 1  
COURSE CODE: 6514  
STUDENT PROFILE**

<b>STUDENT'S NAME:</b>		<b>TEACHER'S NAME:</b>			
<b>School Year/Semester:</b>		<b>Grade:</b>			
<b>Begin Date:</b>		<b>Date Completed:</b>			
<p><b>Directions:</b> Document student's progress using the applicable rating scales below: Enter date of completion under the appropriate column.</p> <p>0 - Has not received instruction in this area / <b>no experience or knowledge of this task (N/A)</b></p> <p>1 – Can apply and perform <b>independently (80-100)</b></p> <p>2 – Can perform the task completely with <b>limited supervision (70-79)</b></p> <p>3 – Requires additional instruction and or <b>close supervision (60-69)</b></p>					
<b>A. STUDENT ORGANIZATIONS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Identify the purpose and goals of a Career and Technology Student Organization (CTSO).				
2	Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.				
3	Explain the benefits and responsibilities of being a member of a CTSO.				
4	List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.				
5	Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.				
<b>B. TECHNOLOGY KNOWLEDGE</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation				
2	Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.				
3	Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.				
4	Explain the consequences of social, illegal, and unethical uses of technology (e.g., cyber bullying; piracy; illegal downloading; cyberbullying; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).				
5	Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, Creative Commons, documents, video, sounds, music, trademarks, and other elements for personal use.				

6	Describe ethical and legal practices of safeguarding the confidentiality of business-related information.				
7	Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.				
<b>C. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Demonstrate punctuality.				
2	Demonstrate critical thinking and problem-solving skills				
3	Demonstrate initiative and self-direction.				
4	Demonstrate integrity.				
5	Demonstrate work ethic.				
6	Demonstrate conflict resolution skills.				
7	Demonstrate listening and speaking skills.				
8	Demonstrate respect for diversity.				
9	Demonstrate customer service orientation.				
10	Demonstrate teamwork.				
<b>D. PROFESSIONAL KNOWLEDGE</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Demonstrate global or “big picture” thinking.				
2	Demonstrate career and life management skills and goal-making.				
3	Demonstrate continuous learning and adaptability skills to changing job requirements.				
4	Demonstrate time and resource management skills.				
5	Demonstrates information literacy skills.				
6	Demonstrates information security skills.				
7	Demonstrates information technology skills.				
8	Demonstrates knowledge and use of job-specific tools and technologies.				
9	Demonstrate job-specific mathematics skills.				
10	Demonstrates professionalism in the workplace.				
11	Demonstrates reading and writing skills.				
12	Demonstrates workplace safety.				
<b>E. INTRODUCTION TO FIRE SERVICE AND FIREFIGHTER SAFETY</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain the mission of the fire service.				
2	Describe how fire departments are organized.				
3	Describe the various specializations within the fire service.				
4	Describe fire department SOPs, rules, and regulations that affect a Fire Fighter I.				
5	Explain ways that fire departments may interact with other organizations and agencies.				
6	Explain the roles and duties of a Fire Fighter I.				

7	Describe fire and life safety initiatives aimed at reducing firefighter illnesses, injuries, and fatalities.				
8	Describe the aspects of NFPA 1500 related to firefighter safety and health.				
9	Describe fire department programs intended to reduce firefighter illnesses, injuries, and fatalities.				
10	Summarize general guidelines for operating safely at structural fire scenes.				
11	Summarize safe practices for riding in fire service vehicles and apparatus.				
12	Explain the use of emergency scene lighting and equipment.				
13	Explain the importance of personnel accountability systems.				
14	Summarize general guidelines for operating safely at highway/roadway incidents.				
15	Demonstrate performance tasks.				
<b>F. FIRE DEPARTMENT COMMUNICATIONS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain the procedures for receiving non-emergency calls.				
2	Describe the types of communications systems and equipment used to receive and process emergency calls.				
3	Explain the procedures for receiving and dispatching emergency calls.				
4	Describe radio equipment and procedures used for internal fire department communications.				
5	Demonstrate performance tasks.				
<b>G. COMMUNICATING (VERBALLY/NONVERBALLY) AND SOFT SKILLS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Differentiate among types of building construction.				
2	Describe the construction of floors, ceilings, and walls.				
3	Explain how basements and stairs may impact fire-fighting operations.				
4	Compare the construction of different roof types.				
5	Describe the construction and operation methods of different types of doors.				
6	Describe the construction and operation methods of different types of windows.				
<b>H. FIRE DYNAMICS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain the basic principles of fire science.				
2	Describe how thermal energy impacts fire behavior.				
3	Explain the function of fuel within the combustion process.				
4	Explain the function of oxygen within the combustion process.				
5	Explain the self-sustained chemical reaction involved in flaming combustion.				
6	Differentiate among the stages of fire development.				

7	Explain how fire-fighting operations can influence fire behavior in a structure.				
8	Describe how building construction and layout affects fire development.				
<b>I. FIREFIGHTER PERSONAL PROTECTIVE EQUIPMENT</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe the various types and uses of personal protective equipment (PPE) worn by firefighters.				
2	Describe the inspection, cleaning, and maintenance of PPE.				
3	Describe conditions that require the use of respiratory protection equipment.				
4	Identify SCBA components.				
5	Describe SCBA limitations.				
6	Describe the procedures for donning and doffing SCBA.				
7	Explain the process of inspecting and cleaning SCBA.				
8	Describe methods of refilling, replacing, and storing SCBA cylinders.				
9	Describe safety considerations for working in and exiting a hazardous atmosphere while wearing SCBA.				
10	Demonstrate performance tasks.				
<b>J. PORTABLE FIRE EXTINGUISHERS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Distinguish among the five classifications of portable fire extinguishers.				
2	Distinguish among the various types of portable fire extinguishers.				
3	Describe the process of selecting and using a portable fire extinguisher.				
4	Demonstrate performance tasks.				
<b>K. ROPES AND KNOTS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Differentiate between life safety rope and utility rope.				
2	Describe the various materials and methods used to construct ropes.				
3	Describe the procedures for inspecting, cleaning, and maintaining ropes.				
4	Describe how webbing is used, inspected, maintained, and stored.				
5	Identify types of knots.				
6	Describe the procedure for hoisting various tools and equipment.				
7	Explain how ropes and knots are used during rescues and at other emergencies.				
8	Demonstrate performance tasks.				

<b>L. GROUND LADDERS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Identify the parts of a ladder.				
2	Differentiate among types of ladders.				
3	Describe the process of cleaning, inspecting, and maintaining a ladder.				
4	Describe safe practices for using ladders.				
5	Describe the process of carrying a ladder.				
6	Describe the proper procedure for placing a ground ladder				
7	Describe ways to secure a ground ladder.				
8	Describe methods for raising and lowering a ladder.				
9	Describe how to safely work from a ladder.				
10	Describe methods to assist a victim down a ladder.				
11	Demonstrate performance tasks.				
<b>M. FORCIBLE ENTRY</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe the basic principles of forcible entry.				
2	Describe forcible entry tools.				
3	Explain considerations for forcible entry tool safety.				
4	Explain how to carry forcible entry tools.				
5	Describe how to clean and maintain forcible entry tools.				
6	Describe methods of forcing entry through doors.				
7	Describe methods for forcing entry through windows.				
8	Describe methods for breaching walls.				
9	Demonstrate performance tasks.				
<b>N. STRUCTURAL SEARCH AND RESCUE</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain best practices to ensure firefighter survival during interior operations.				
2	Describe air-monitoring operations.				
3	Describe structural search and rescue operations.				
4	Describe victim removal methods.				
5	Describe MAYDAY protocols.				
6	Describe emergency evacuation methods.				
7	Describe rapid intervention crew equipment and duties.				
8	Demonstrate performance tasks.				
<b>O. TACTICAL VENTILATION</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain why tactical ventilation is performed at a structure fire.				
2	Describe safety considerations related to tactical ventilation.				

3	Describe ventilation tools and equipment.				
4	Describe horizontal ventilation.				
5	Describe vertical ventilation.				
6	Describe considerations related to the ventilation of basements and other special compartments.				
7	Demonstrate performance tasks.				
<b>P. FIRE HOSE</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe characteristics of fire hose.				
2	Describe the inspection, care, and maintenance of fire hose.				
3	Explain methods of rolling hose.				
4	Demonstrate performance tasks.				
<b>Q. HOSE OPERATIONS AND HOSE STREAMS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe methods of supplying water for firefighting operations.				
2	Describe methods used to deploy fire hose.				
3	Describe methods of advancing hoselines.				
4	Differentiate among types of hose streams and nozzles.				
5	Explain how to operate different types of hoselines, nozzles, and master stream devices.				
6	Demonstrate performance tasks.				
<b>R. FIRE SUPPRESSION</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Explain the science behind fire suppression.				
2	Describe methods for suppressing structural fires.				
3	Explain the role of firefighters with regards to supporting fire protection systems during fire suppression.				
4	Explain the duties of firefighters related to building utilities.				
5	Describe the process of attacking a vehicle fire.				
6	Describe the process of attacking fires in exterior Class A materials.				
7	Describe ground cover fire attack.				
8	Demonstrate performance tasks.				
<b>S. OVERHAUL, PROPERTY CONSERVATION, AND SCENE PRESERVATION</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe overhaul.				
2	Explain how to conserve property at a fire scene.				
3	Describe the duties that firefighters must perform to protect and preserve a fire scene.				
4	Demonstrate performance tasks.				

<b>T. NATIONAL INCIDENT MANAGEMENT SYSTEM- INCIDENT COMMAND SYSTEM</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
1	Describe the function of each section within the NIMS-ICS organizational structure.				
2	Explain the process of establishing and transferring command of an incident.				
3	Identify the traits and values of an effective leader.				
4	Explain how incidents are managed.				
5	Describe the use of an Incident Action Plan.				
<b>U. HAZARDOUS MATERIALS AWARENESS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
	<b>MODULE 1</b>				
1	Define a hazardous materials incident.				
2	Describe roles and responsibilities of first responders in hazardous materials incidents.				
3	Recognize ways that hazardous materials harm people.				
4	List hazardous materials regulations, definitions, and statistics.				
	<b>MODULE 2</b>				
1	Identify the seven clues to the presence of hazardous materials.				
2	Explain how pre-incident plans, occupancy types, and locations may indicate the presence of hazardous materials.				
3	Identify basic container shapes that indicate the presence and hazards of hazardous materials.				
4	Describe ways that U.S. transportation placards, labels, and markings indicate the presence and hazards of hazardous materials.				
5	Identify other markings and colors that indicate the presence of hazardous materials.				
6	Describe ways written resources are used to identify hazardous materials and their hazards.				
7	Explain the limited role of the five senses for identifying hazardous materials.				
8	Explain the role of monitoring and detection devices for Awareness Level person.				
	<b>MODULE 3</b>				
1	Recognize notification procedures.				
2	Describe ways first responders use the Emergency Response Guide book at hazardous materials incidents.				
3	Explain the role of first responders in initiating protective actions.				
4	Identify actions that Awareness level personnel should take when responding to terrorist incidents.				
5	Make appropriate notifications of a hazardous materials incident.				
6	Identify indicators and hazards present at a hazardous materials incident using approved reference sources.				

7	Implement protective actions at a hazardous materials incident				
<b>V. HAZARDOUS MATERIALS OPERATIONS</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
	<b>MODULE 1</b>				
1	Identify states of matter as they relate to hazardous materials.				
2	Explain physical properties that aid in identifying potential hazards and predicting behavior of hazardous materials.				
3	Explain chemical properties that aid in identifying potential hazards and predicting behavior of hazardous materials.				
4	Define the hazard classes.				
5	Describe actions taken to gather sufficient information to identify the hazardous material(s)/substance(s) involved in a hazmat incident.				
	<b>MODULE 2</b>				
1	Describe methods of identifying potential outcomes.				
2	Explain the role of the General Hazardous Materials Behavior Model in predicting the behavior of containers.				
3	Recognize general container types and their associated behaviors.				
4	Describe the types of bulk facility storage tanks and their associated hazards				
5	Describe the types of cargo tank trucks and their associated hazards				
6	Describe the types of tank cars and their associated hazards.				
7	Describe the types of intermodal tanks and their associated hazards.				
8	Describe types of bulk transportation containers and their associated hazards.				
9	Describe other types of bulk and non-bulk containers and their associated hazards				
10	Analyze a hazardous materials scenario to identify potential hazards.				
	<b>MODULE 3</b>				
1	Explain predetermined procedures.				
2	List incident priorities for hazardous materials incidents.				
3	Describe the process of size-up and hazard and risk assessment.				
4	Define hazardous materials incident levels.				
5	Explain the three modes of operations at hazardous materials incidents.				
6	Identify methods for planning the initial response.				
7	Distinguish common response objectives and action options at hazardous materials incidents.				
8	Identify actions available at a hazardous materials incident.				
	<b>MODULE 4</b>				



1	Describe the NIMS-ICS organizational functions that help initiate incident management.				
2	Describe secondary NIMS-ICS organizational functions.				
3	Explain ways of implementing response objectives and action options.				
4	Identify processes for evaluating progress.				
5	Demonstrate performance tasks.				
	<b>MODULE 5</b>				
1	Define terrorism.				
2	Explain ways of identifying terrorist attacks.				
3	Describe the range of tactics that may be used in a terrorist attack.				
4	Identify indicators and types of explosive attacks and devices.				
5	Identify indicators and types of chemical attacks.				
6	Identify indicators and types of biological attacks.				
7	Identify indicators and types of possible radiological attacks.				
8	Identify general hazards at illicit laboratories.				
9	Recognize illegal hazmat dumps.				
10	Describe hazmat operations after disasters.				
	<b>MODULE 6</b>				
1	Describe respiratory protection used at hazardous materials incidents.				
2	Explain varieties of protective clothing worn at hazardous materials incidents.				
3	Describe personal protective equipment ensembles used during hazardous materials incidents.				
4	Explain PPE related stresses.				
5	Describe procedures for safely using PPE.				
6	Identify procedures for inspection, storage, testing, maintenance, and documentation of PPE.				
7	Select appropriate PPE to address a hazardous materials scenario.				
	<b>MODULE 7</b>				
1	Define the different types of decontamination that may be used at a hazmat incident.				
2	Identify decontamination methods.				
3	Define gross decontamination.				
4	Explain processes for emergency decontamination.				
5	Explain processes for technical decontamination.				
6	Explain processes for mass decontamination.				
7	Identify victim management activities during decontamination operations.				

8	Recognize general guidelines for decontamination operations.				
9	Describe decontamination implementation.				
10	Explain decontamination termination activities.				
11	Perform gross decontamination.				
12	Perform emergency decontamination.				
13	Perform technical decontamination on ambulatory people.				
14	Perform technical decontamination on non-ambulatory victims.				
15	Perform mass decontamination on ambulatory people.				
16	Perform mass decontamination on non-ambulatory victims.				
	<b>MODULE 8</b>				
1	Describe methods of spill control.				
2	Describe methods of leak control.				
3	Describe methods of fire control at a hazardous materials incident.				
4	Perform absorption/adsorption.				
5	Perform damming.				
6	Perform diking operations.				
7	Perform diversion.				
8	Perform retention.				
9	Perform vapor suppression.				
10	Perform vapor dispersion.				
11	Perform dilution.				
12	Perform remote valve shutoff or activate emergency shutoff device.				