Career Cluster: Law, Public, Safety, Corrections & Security

CIP: 430203

Effective: 08/2015

Program Name: Fire Science/Firefighting I

National Organization: National Fire Protection Association

Competencies (statement that provides the overview and defines the instructional area)	Knowledge, Content and Skills (what a student needs to know and be able to do and upon which they will be assessed) http://www.careertech.org/career-ready-practices http://www.education.nh.gov/career/career/aaoi.htm	NH Common Core State Standards — •English/Language Arts/Literacy: E •Mathematics: M	Rating Scale/Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency)
Student will:	Student will:		Student will:
Understand the history, the terminology, the organization/and operations, and the role of a fire fighter within the fire service.	Discuss the history of the fire service, and describe the basic principles involved in the organization of the fire department. AAI 1. Planning AAI 3. Finance		For Example: As a fire fighter, you have been tasked by your supervisor to give a tour of the fire department to a local community group. In planning for this tour, you have made an outline that includes the following topics: the history of the fire service, the mission statement, the organizational structure, the department's policies and regulations, and the image a fire fighter must uphold. Cont. to #3
	2. Define the roles and responsibilities of a fire fighter 1 and the chain of command as it applies to a fire department. AAI 2. Management AAI 6. Labor Issues 3. Describe the fire department's regulations, policies, and standard operating procedures, and explain how they apply to the fire fighter. AAI 7. Community Issues AAI 8. Health, Safety, and Environment		1 2 3 4 For Example: 1 2 3 4 For Example:

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National Organization: Na	ational Fire Protection Association		
Competencies	Knowledge, Content and Skills	NH Common Core State	Rating Scale/Sample Performance Assessments
(statement that provides the	(what a student needs to know and be able to do and	Standards –	(Performance tasks the student needs to demonstrate in order to
overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices	Arts/Literacy: E	
	http://www.education.nh.gov/career/career/aaoi.htm	•Mathematics: M	
Student will:	Student will:		Student will:
Understand the physical	4. Describe the components of physical fitness.		1 2 3 4
fitness requirements			For Example: As a probationary fire fighter, you have
necessary for an entry-			been tasked by your captain to develop a physical fitness
level fire fighter, as well as			training program for your shift. This program must
associated health risks.			describe and provide examples of the components of
4555544554			physical fitness. It should include a self-assessment that
			can be performed by individuals in order to determine
			their personal areas of strength and areas for improvement.
			Cont.to # 5
	5. Perform a personal physical fitness		1 2 3 4
	assessment, and identify strengths and areas		For Example:
	for improvement.		
	6. Describe the carcinogenic and co-		
	carcinogenic health hazards posed by the		For Example: Following controlled, live fire training, you
	unique environmental exposure experienced		must demonstrate adherence to your department's cancer
	within the field of fire science.		protection procedures. This should include, at a minimum,
			showering and washing your gear.
Understand the principles	7. Explain and demonstrate the methods of		1 2 3 4
and practices of safety as it	donning, doffing, maintaining, and operating		For Example: As a new fire fighter, you arrive on the
relates to operation of	personal protective equipment (PPE).		scene of a smoke investigation. Your officer directs you
equipment/ tools (PPE,	r · · · · · · · · · · · · · · · · · · ·		to enter the building using all of your protective gear.
SCBA, ropes/knots,			After the call, your supervisor informs you that he will be
ladders, hose/stream, and			coming to inspect your gear. What do you need to do to
nozzles) and safe operating			
			have it ready for the inspection and for the next incident?
practices used in the fire			Cont. to #8
service.			

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National Organization: N	National Fire Protection Association		
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Student will:	Student will:		Student will:
	8. Explain and demonstrate the use and operation of Self-Contained Breathing Apparatus (SCBA) and its safety, cleaning, refilling, and inspecting.		1 2 3 4 For Example:
	9. Select and use ropes, and demonstrate the eight essential knots used for securing, hoisting, and lowering personnel and equipment, and describe how ropes are used in various rescue situations.		To Example: As a fire fighter, you arrive on the scene of a building fire. You have to decide, based on the size of the fire, how to deploy, position, and secure the ladder, and how to raise and lower equipment to your crew. When the scene is under control, you need to return the equipment back to its state of readiness. Cont. to #10
	10. Demonstrate how to lift, carry, position, raise, secure, climb, maintain, and inspect fire service ladders.		1 2 3 4 For Example:
	11. Describe the types of hose; methods of laying, carrying, advancing, rolling and loading hose; and how to operate nozzles and tips for water fire streams and foam systems.		Tor Example: As a fire fighter, you must establish water supply and select the proper equipment necessary to extinguish a given fire incident (interior, exterior, exposures). You will complete an incident report. Cont. to #15
	12. Become familiar with the operation of fire hydrants and the assembly equipment for establishing a water supply from both a static source and a pressure source.		1 2 3 4 For Example:

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(statement that provides the	(what a student needs to know and be able to do and	<u>Standards</u> –	(Performance tasks the student needs to demonstrate in order to
overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices	Arts/Literacy: E	
	http://www.education.nh.gov/career/career/aaoi.htm	•Mathematics: M	
Student will:	Student will:		Student will:
	13. Based on the size and type of fire, select and		1 2 3 4
	operate portable fire extinguishers (stored-		For Example:
	pressure water-type, multipurpose dry		
	chemical, etc.) within structures, passenger		
	vehicles, and large trash containers.		
	14. Deploy and operate a master stream device		
	to be used for direct fire attack or indirect		
	exposure protection.		
	15. Demonstrate connecting to the FD		
	Connection of a sprinkler system and		
	operating control valves, as well as stopping		
	the flow of water from an activated sprinkler		
	head.		
	16. Demonstrate the ability to:		1 2 3 4
	 Transport ventilation equipment; 		For Example: The instructor has presented your group
	 Perform horizontal, vertical, 		with several video scenarios. Your group is assigned to
			evaluate all aspects related to ventilation. You will report
	mechanical, positive pressure, and		<u> </u>
	negative pressure ventilation, and		to the class the proper ventilation equipment needed to
	hydraulic ventilation; and		perform multiple ventilation tasks depending on the
	 Follow safety precautions related to 		specific scenario situation.
	ventilation, including identifying		
	indicators of roof collapse and		
	preventing backdraft and flashover.		

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Competencies (statement that provides the	Knowledge, Content and Skills (what a student needs to know and be able to do and	NH Common Core State Standards –	Rating Scale/Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to
overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices http://www.education.nh.gov/career/career/aaoi.htm	Arts/Literacy: E •Mathematics: M	
Student will:	Student will:		Student will:
Understand how to safely	17. Describe a Fire Fighter 1's role in ensuring		1 2 3 4
and efficiently respond to	safe and efficient response to an emergency		For Example: As the first firefighter, you arrive on-scene
an emergency scene, and	scene, and describe size-up.		and observe fire in the upper second floor of a 1-1/2 story
be able to size-up the			wood frame residential building. You drive past the front
situation in order to make			and view the Alpha, Bravo, and Delta sides of the
sound and safe decisions.			structure. You establish command across the street and
			have a good view of the occupancy. Two engine
			companies are enroute, along with a truck company, EMS
			unit, and a rescue company. The first-due engine is about
			four minutes out. The street has ample hydrants at both
			ends. The house is midway down the street, with access
			from both directions. What will you transmit in your
			initial communications upon arrival? What is your initial
			incident action plan (IAP) and strategy? What are the
			sequences of primary tactical objectives that must be
			implemented in a timely manner? What do you know
			about this type of structure and occupancy? How will the
			building behave, and how will the fire behave? What is the
			Ten Minute milestone, and what do you expect to be doing
			when you reach that milestone? After the call, you will
			debrief with your officer and the crew. Discuss what went
			well during the emergency and what did not go well or
			what prevented you from responding in a more efficient
			manner. This quick review can reinforce positive practices
			and can provide a way to document changes that need to
			be made or systems errors that were uncovered.
			The discussion will allow the responders to review key
			aspects of the emergency from all perspectives.
Key: Rating Scale: 1 NO EXP			Cont. to #19

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Student will:	Student will:		Student will:
	18. Demonstrate mounting and dismounting of an emergency vehicle with needed tools and equipment.		1 2 3 4 For Example:
	19. Explain the procedures and purpose of shutting off utilities (gas, water, etc.).		1 2 3 4 For Example:
Understand the types of searches, how searches are conducted, and various rescue techniques.	20. Demonstrate a primary and secondary search.		For Example: As a fire fighter, you have been given the task of reviewing procedures for conducting search and rescue operations. Present to your team the factors that must be considered when determining the location(s) of a primary and secondary search, the areas of a building that are searched first, what incident factors may help in determining a direction or location to begin search, the role of thermal imaging in primary and secondary search, and the proper rescuing techniques needed to remove trapped occupants and firefighters during an emergency situation. Cont. to #21
	21. Demonstrate a webbing sling drag rescue and the use of over ground ladders.		1 2 3 4 For Example:

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Student will:	Student will:		Student will:
Understand the processes and techniques of using fire service communications in order to ensure personal safety, smooth operations, and information reporting.	 22. Discuss and demonstrate procedure in receiving non-emergency and emergency calls, obtaining necessary information, initiating response, and relaying information to the dispatch center. 23 Discuss radio codes, emergency traffic, and incident reports. 		To Example: A call comes in to the department, and you are the one who answers the call. You need to decide if this is a service or emergency call. You obtain the necessary information from the caller and decide that it is not a routine service call. You properly dispatch it, and manage the incident communications. Cont. to #24 1 2 3 4 For Example:
	AAI 5. Underlying Principles of Technology 24. Discuss the importance of radio interoperability, and demonstrate the use of radio channels in an emergency operation.		Tor Example: 1 2 3 4 For Example:
Understand fire behavior and the art of reading smoke in order to prevent loss of life.	25. Explain the conditions necessary for combustion to happen, the chemistry of combustion, and the mechanisms of heat transfer. 26. Describe the characteristics of liquid and gas		Tor Example: As a fire fighter, you arrive on the scene. You first size-up the smoke that is present in order to determine your courses of action. You evaluate the behavior of smoke, color of fire, volume, velocity, density, and weigh other factors (weather, container, etc.) in order to perform the correct tactics/strategies to extinguish the fire. You will give a size-up report to the incident commander. Cont. to #27
	fuel fires and interior structure fires.		For Example:

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Competencies (statement that provides the overview and defines the instructional area) Student will: Understand the effect of fire on the structural of a building in order to look for warning signs (collapse, spread of fire, etc.) and forcible entry for each construction.	Knowledge, Content and Skills (what a student needs to know and be able to do and upon which they will be assessed) http://www.careertech.org/career-ready-practices http://www.education.nh.gov/career/career/aaoi.htm Student will: 27. Describe the process of reading smoke. 28. Describe the characteristics of various building components (foundations, ceilings, etc.), the five types of building construction, and how each type of structure reacts to fire. 29. Describe the construction of typical doors, windows, and walls, and demonstrate forcible entry through each structure using a variety of tools.	NH Common Core State Standards — •English/Language Arts/Literacy: E •Mathematics: M	Rating Scale/Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency) Student will: 1 2 3 4 For Example: 1 2 3 4 For Example:
Understand the components of a personnel accountability system, communications procedures, RIC, and stress management process to ensure a safe rescue.	30. Describe the procedures for: • personal accountability systems; • communications; and • loss of air supply and describe safe havens, elements that create or indicate a hazard, and emergency evacuation methods.		Tor Example: You have arrived at the scene and report to the accountability officer. You are assigned to the RIC crew and stage near Incident Command. Determine strategies and tactics needed to rescue a lost or trapped fire fighter. You must take into account communications, air supply, equipment, hazards, and means of egress necessary for a safe rescue. You will then give a report to the RIC officer.

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Student will:	Student will:		Student will:
Understand the purposes and practices of salvage and overhaul in order to prevent unnecessary property damage and ensure that the fire is completely extinguished.	 31. Demonstrate the correct use of salvage covers, ventilation, and other equipment in protecting property from smoke and water. 32. Demonstrate proper use of tools in exposing and extinguishing smoldering or hidden pockets of fire. 		For Example: You and your crew have been tasked with salvage and overhaul of a fire in a second floor bedroom. Select the proper tools and equipment needed to complete the assignment, and give a report to your officer when completed. Cont. to #32 1 2 3 4 For Example:
Understand the philosophy and the essential function of emergency incident rehabilitation in order for fire fighters to perform effectively.	 33. Define emergency incident rehabilitation, and describe its place in the overall emergency effort, including the factors, causes, and need for rehabilitation. 34. Explain the seven functions of emergency incident rehabilitation and the four components of revitalization. 35. Describe the personal responsibilities related 		To Example: You have been assigned by your incident commander to establish a rehab sector. You need to determine procedures, acquire necessary supplies, and assign responsibilities related to rehab. Cont. to # 35 1 2 3 4 For Example: 1 2 3 4
	to emergency incident rehabilitation.		For Example:

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overview and defines the instructional area)	upon which they will be assessed) http://www.careertech.org/career-ready-practices http://www.education.nh.gov/career/career/aaoi.htm	•English/Language Arts/Literacy: E •Mathematics: M	be rated proficient in meeting the competency)
Student will:	Student will:		Student will:
Understand the principles of wildland firefighting in	36. Demonstrate proper use of tools and equipment in combating wildland fires.		1 2 3 4 For Example: Your crew is deployed to a wildland fire in
order to ensure safe operations at wildland fire	AAI 4. Technical and Production Skills		CA. Your crew is assigned to cut a fireline. You need to select the proper tools and equipment, demonstrate
scenes.			proper techniques, and insure personal safety using LCES. While working, you are advised that the fire has changed direction and is heading towards you. You will need to take measures to escape and then safely deploy your fire shelter if this is not possible. Cont to # 38
	37. Demonstrate how to suppress a ground fire and deploy a fire shelter.		1 2 3 4 For Example:
	38. Recognize the importance of weather conditions on wildland fires and the personal safety issues of fighting a wildland fire.		1 2 3 4 For Example:
Understand the principles of basic first aid and CPR in order to provide medical care until trained EMTs arrive.	39. Demonstrate CPR to the current standard.		For Example: You are in the back yard working when you hear your neighbor screaming. You run to the back of the house, and you notice her 55 year old husband lying on the patio unconscious. The neighbor states that her husband had been mowing the lawn. You assess the scene for safety and then assess the patient. You send the neighbor to call 911 and perform CPR on the patient until the ambulance arrives.

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overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices	Arts/Literacy: E	be fated profesent in meeting the competency)
mstructionar area)	http://www.education.nh.gov/career/career/aaoi.htm	•Mathematics: M	
	integrit www.education.min.gov/euroor/euroor/auon.min	Tradicination 141	
Student will:	Student will:		Student will:
	40. Recognize and demonstrate the procedures		1 2 3 4
	necessary to control:		For Example: As a member of the rescue squad, you are
	 infectious disease agents; 		called to the scene of a 16 year old male who has cut his
	 bleeding; and 		leg with a chain saw while cutting down a tree. He is
	• shock		lying on the ground with a laceration to his left lower leg.
			You must stabilize this patient by controlling the bleeding
			and treating him for shock until the ambulance arrives.
			You must demonstrate that scene safety and personal
			protection are your first concern.
Understand the technician	41. Describe a hazardous material and the		1 2 3 4
level responder's roles and	common locations where hazardous materials		For Example: Hazardous materials can be silent killers.
responsibilities at a	may be found.		Almost every household and workplace has varying
hazardous materials	may be found.		amounts of chemicals that, if spilled or combined, will
incident.			cause great harm and even death. You have been assigned
metaent.			to create a media presentation on how to recognize these
			chemicals, where they may be found, and what to do, or
			not do, about hazardous spills.
TT 1 4 141 4	40 December 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Cont. to #43
Understand the properties	42. Describe the characteristics of solids,		
of various hazardous	liquids, and vapors.		
materials and the impact			
that they have on			
emergency response.			
	43. Describe Harmful Substances' Routes of		
	Entry into the human body and how to protect		
	firefighters from these exposures.		

Key: Rating Scale: 1 NO EXPOSURE; 2 = NOVICE (Information was covered in class, but student cannot demonstrate skill or knowledge without significant supervision); 3 = PROFICIENT (Student regularly demonstrates the knowledge or skill); 4= MASTERY (Student demonstrates successful completion of this skill numerous times without supervision.) **Common Core:** E=English/Language Arts (Reading, Writing, Research, Listening Speaking, Technology) | M=Mathematics (Numbers Quantity, Algebra, Functions, Geometry, Stat&Prob) **All Aspects of Industry** (AAI) | **Career Ready Practices** (CRP)

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Competencies (statement that provides the overview and defines the instructional area) Student will: Understand occupancies, storage, and transport of hazardous materials.	Knowledge, Content and Skills (what a student needs to know and be able to do and upon which they will be assessed) http://www.careertech.org/career-ready-practices http://www.education.nh.gov/career/career/aaoi.htm Student will: 44. Describe storage facilities and transportation of hazardous materials.	NH Common Core State Standards – •English/Language Arts/Literacy: E •Mathematics: M	Rating Scale/Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency) Student will: For Example: You are called to respond to a motor vehicle accident involving a delivery truck on a major highway in your town. As you approach the scene, what precautions should you take in order to identify the potential hazards in the vehicle?
	 45. Describe labels and placards used in the Department of Transportation (DOT) marking system. 46. Describe the NFPA 704 marking system used to identify hazardous materials at a fixed facility. 		Cont.to #46
Understand hazardous materials incident levels, personal protective equipment levels, and how to implement an appropriate response to manage and control the scene.	47. Describe the steps to take in an initial response using the incident command system and defensive actions that must be taken.		For Example: You are responding to the scene above with an engine and your rescue truck, both of which are staffed with crews of four. Determine a plan to manage the scene, and then begin to implement it.
	48. Describe the levels of Personal Protective equipment required at hazardous materials incidents.		For Example: You are called to respond to a motor vehicle accident involving a commercial vehicle on a major highway in your town. As you approach the scene, you notice an unknown substance leaking from the back of the vehicle. The driver is unresponsive in the front seat. What precautions should you take, and how will you begin to control this scene? Cont. to #49

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Competencies	Knowledge, Content and Skills	NH Common Core State	Rating Scale/Sample Performance Assessments
(statement that provides the	(what a student needs to know and be able to do and	Standards -	(Performance tasks the student needs to demonstrate in order to
overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices	Arts/Literacy: E	
	http://www.education.nh.gov/career/career/aaoi.htm	•Mathematics: M	
Student will:	Student will:		Student will:
	49. Describe the Control Zones at a hazardous		
	materials incident and how to move safety		
	between them.		
The denotes of the majorities	50. Describe the actions recognize to must set the		For Example: Using the scenario above, your captain has
Understand the priorities	50. Describe the actions necessary to protect the		
and actions taken at a	general public in a hazardous materials		determined that the material leaking is diesel fuel and that
hazardous materials	situation.		it is leaking from a ruptured 50 gallon drum. You are
incident.			given the assignment to contain the fuel spill so that it
			does not contaminate a nearby spring. You have a
			highway truck on scene with a load of sand. Demonstrate
			the methods that you will use to contain the spill.
			Cont. to #52
	51. Describe methods used to monitor, detect,		
	and identify a hazardous material.		
	und rubinity a nazardous material.		
	52. Describe methods used to confine, contain,		
	extinguish, and mitigate a hazardous materials		
	incident.		
	52 D 3 4 61 61 6		
Understand the purpose	53. Describe the purpose of decontamination.		For Example: You respond to the local high school for the
and process of			report of a man in the science lab with an unknown
decontamination at a			chemical splashed on his hands and face. There are
hazardous materials			Material Data Sheets (MSDS) in the lab that show that the
incident.			chemical is Aluminum Chloride – Hexahydrate. How will
			you decontaminate this man in order to transport him to
			the hospital, and what precautions, if any, should you take
			* * * * * * * * * * * * * * * * * * * *
			C 7 1
			for emergency personnel? Cont. to #54

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Competencies	Knowledge, Content and Skills	NH Common Core State	Rating Scale/Sample Performance Assessments
(statement that provides the	(what a student needs to know and be able to do and	Standards –	(Performance tasks the student needs to demonstrate in order to
overview and defines the	upon which they will be assessed)	•English/Language	be rated proficient in meeting the competency)
instructional area)	http://www.careertech.org/career-ready-practices	Arts/Literacy: E	
	http://www.education.nh.gov/career/career/aaoi.htm	•Mathematics: M	
a	a		g
Student will:	Student will:		Student will:
	54. Describe the various types of		
	decontamination necessary at a hazardous		
	materials scene and how to perform each		
	method.		
Understand the threat			For Example: As a new firefighter, you have been
	55. Describe how to respond to a terrorism		
posed by terrorism.	incident and the precautions necessary to		assigned the task of determining potential targets for
	protect both you and the general public.		terrorism in your town so that your crew can begin to
			preplan a response based on risk. What will your list
			consist of, and how will you prioritize the importance of
			each location?
Understand the career	56. Demonstrate and apply the skills and		For Example: As the fire chef's aide, you have been asked
ready practices and	knowledge to prepare for transition to		to speak to high school students. Your topics include, but
	postsecondary, career training, or the		are not limited to, what are the most important qualities for
employability skills in			
order to achieve success in	workforce.		a fire fighter? What can a candidate do to prepare for a
today's workplace.			career in the field? What does it take to be a good fire
			fighter? What are the application and test taking
			processes?
			http://www.careertech.org/career-ready-practices