

COURSE OUTLINE**Course:** 72053 FIRE FIGHTER TECHNOLOGY**Total Course Hours:** 270.00**CBEDS Title:** FIREFIGHTING**CBEDS #:** 5833**Job Title(s):**

Firefighter

Prerequisites:

16 years old or a junior in high school

Course Description:

Training takes place in the classroom and at a fire station. The course covers fire science, fire chemistry, fire prevention, equipment and systems, tactics and strategy, arson investigation and first aid.

Integrated throughout the course are Academic and CTE standards, which include safety, communication, technology, ethics, career planning and other employability skills.

Hours	
Class	OJT

Occupational Competencies

1-7 on the Course Outline are generic to all BVROP courses and include the BVROP Student Outcomes

5.00		1	<u>ORIENTATION</u>	<ul style="list-style-type: none"> A Identifies and discusses course objectives and competencies. B Discusses ROP Student Outcomes. C Explains class attendance and behavior objectives.
5.00	5.00	2	<u>HEALTH, SAFETY AND ENVIRONMENTAL MANAGEMENT</u>	<ul style="list-style-type: none"> A Describes accident procedure. B Demonstrates appropriate safety practices (e.g. bending, lifting, etc.). C Demonstrates knowledge of classroom procedures and drills (e.g. earthquake, fire and emergency).
5.00	5.00	3	<u>ETHICS AND LEGAL RESPONSIBILITIES</u>	<ul style="list-style-type: none"> A Defines sexual harassment and discusses tactics for handling harassment situations. B Applies appropriate workplace behavior and standards.
10.00	20.00	4	<u>LEADERSHIP AND TEAMWORK</u>	<ul style="list-style-type: none"> A Describes the characteristics and benefits of teamwork and leadership. B Demonstrates ability to make appropriate decisions. C Works well with others and gives/takes constructive criticism.
15.00	3.00	5	<u>CAREER PLANNING</u>	<ul style="list-style-type: none"> A Prepares a finished, professional portfolio showing the best work that has been completed during the class. B Locates job opportunities through the use of want-ads and placement agencies. C Visits at least one facility related to area of training and observes jobs performed. D Completes a job application correctly. E Prepares for and critiques a simulated employment interview. F Discusses employee benefits and rights as related to the specific occupational job area including gender equity and equal opportunity. G Identifies acceptable procedures to leave a job. H Applies for a scholarship. I Completes a professional resume. J Demonstrates appropriate personal grooming and dress. K Describes fire academy application processes.

Hours	
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10.00	10.00	6	<u>COMMUNICATION</u>	<ul style="list-style-type: none"> A Uses effective workplace conversation. B Reads and interprets written information and directions. C Practices various forms of written communication appropriate to the occupation.
5.00		7	<u>STUDENT OUTCOMES</u>	<ul style="list-style-type: none"> A Demonstrates Occupational Specific, Communication and Critical Thinking Skills B Demonstrates Responsible Work Ethics C Demonstrates Career/Employment Literacy D Demonstrates Effective Use of Technology
2.00		8	<u>FIRE TECHNOLOGY AS A CAREER CHOICE</u>	<ul style="list-style-type: none"> A Identifies careers in Fire Technology and fire service related fields. B Demonstrates organizational and record keeping skills.
2.00		9	<u>APPARATUS FAMILIARIZATION</u>	<ul style="list-style-type: none"> A Identifies various trucks, engines, and rescue units. B Explains the uses for the various fire service apparatus.
6.00	38.00	10	<u>HOSE, HYDRANTS & HYDRAULICS</u>	<ul style="list-style-type: none"> A Identifies fire hose by size & construction. B Demonstrates handling and coupling fire hose. C Demonstrates hose lays (straight, reverse and supply). D Identifies the gauges on an engine company. E Defines the use of hydraulics in the fire service.
3.00	20.00	11	<u>LADDERS</u>	<ul style="list-style-type: none"> A Identifies various fire service ladders. B Demonstrates how to raise and safely climb a 12-foot straight ladder and 24-foot extension ladder.
6.00		12	<u>EQUIPMENT</u>	<ul style="list-style-type: none"> A Identifies hydraulic rescue tools, forcible entry tools, rotary saw, and smoke ejector/blower. B Demonstrates knowledge of the amount of water and hose carried on fire apparatus. C Demonstrates use of pick and flat head ax and the pike pole/rubbish hook.
6.00	21.00	13	<u>BREATHING APPARATUS</u>	<ul style="list-style-type: none"> A Identifies the different types of self contained breathing apparatus (SCBA). B Demonstrates the proper use of self contained breathing apparatus. C Demonstrates how to operate equipment during a search and rescue drill.
3.00		14	<u>CHEMISTRY OF FIRE</u>	<ul style="list-style-type: none"> A Explains the fire triangle/chemical chain reaction
10.00	3.00	15	<u>FIRE EXTINGUISHERS</u>	<ul style="list-style-type: none"> A Identifies by size and type the four different fire extinguishers B Demonstrates proper use of different fire extinguishers C Explains what extinguisher to use by type of fire
6.00	3.00	16	<u>STRATEGY, TACTICS & TACTICAL PROBLEMS</u>	<ul style="list-style-type: none"> A Explains the term: Mental evaluation of the situation B Explains the term: Size-up in the use of fire tactics C Explains the term: Incident command system.
10.00		17	<u>SALVAGE AND ROPES</u>	<ul style="list-style-type: none"> A Demonstrates use of and how to fold/throw salvage covers B Demonstrates how to tie knots used in the fire service C Demonstrates how to hoist tools and equipment using fire service knots D Identify types of rope used in the fire service.

Hours	
Class	OJT

8.00	8.00
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18 STANDARD FIRST AID

- A Demonstrates proper evaluation and process for resuscitation
- B Demonstrates process for controlling bleeding
- C Demonstrates proper process for transferring sick and injured
- D Demonstrates evaluation and process for shock.
- E Demonstrates process for CPR
- F Demonstrates proper use of triage

5.00	
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19 FIRE PREVENTION ACTIVITIES

- A Explains fire protection pre-plans, sprinkler systems/sprinkler heads, smoke detectors
- B Describes basics of fire prevention

	6.00
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20 COMMUNITY CLASSROOM

- A Participates in ride-a-long with emergency service.
- B Participates in a tour of a fire station
- C Demonstrates proper station and apparatus maintenance.

6.00	
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21 HAZARDOUS MATERIALS

- A Identifies safety measures
- B Identifies signs and symbols

TOTAL HOURS

Class	OJT	Course
128.00	142.00	270.00