

# FIRE SCIENCE PROTECTION TECHNOLOGY

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### OVERVIEW

#### The Occupations

Firefighter, Fire Inspector, Fire Chief

#### About The Occupations

Firefighters respond to a variety of emergency situations in which life, property, or the environment are at risk, such as residential structures and businesses. Firefighters are frequently the first emergency response team at the scene of an accident. They help protect the public against these dangers. Today, firefighters respond to medical emergencies, and their departments require them to have training in medical emergency procedures. Firefighting is dangerous and complex work, which requires the firefighters to work as teams.

Firefighters must respond immediately to emergencies, and each situation presents a unique and challenging experience. Superior officers, such as a captain or chief, guide firefighting teams to accomplish specific duties. Today, firefighters assume a wider range of responsibilities, which require the utilization of sophisticated equipment. They can expect to operate a pump, position ladders, and connect hose lines to hydrants. In many cases, the firefighters will change duties several times at an emergency scene. Ambulances, fireboats, and emergency rescue vehicles may be operated by some firefighters.

Fire stations have dining and sleeping quarters to allow the firefighters to respond to emergencies 24-hours a day. Between emergency responses, the firefighters conduct practice drills, clean and maintain equipment, participate in classroom training, conduct fire inspections, conduct demonstrations to the public, participate in fitness training, check building plans, and inspect fire escapes. Firefighting is hazardous work resulting in environments where floors suddenly cave in, walls topple, and there is exposure to gases, chemicals, and smoke. Firefighters face dangerous situations where injury and death are a risk.

### CAREER OUTLOOK

| WORK ENVIRONMENT     |   |
|----------------------|---|
| Employers            | <ul style="list-style-type: none"> <li>• Municipal fire departments</li> <li>• Industrial manufacturing plants</li> <li>• Government agencies</li> <li>• Forest protection agencies</li> </ul>  |
| Typical Schedule     | <ul style="list-style-type: none"> <li>• Shift work normal; 24 hours on duty</li> <li>• Overtime normal</li> <li>• Tools and Equipment:</li> <li>• Protective clothing</li> <li>• Building and fire codes</li> <li>• Chemicals to put out fires</li> <li>• Emergency rescue vehicles</li> <li>• Firefighting apparatuses</li> </ul>   |
| Tools and Equipment  |   |
| WORKER PORTRAIT      |   |
| Skills and Aptitudes | <ul style="list-style-type: none"> <li>• Decisive</li> <li>• Leadership</li> <li>• Communications</li> <li>• Team player</li> <li>• Ability to remain calm in emergency situations</li> <li>• Ability to make quick decisions</li> <li>• Physically fit</li> <li>• Good mechanical aptitude</li> <li>• Ability to administer emergency medical procedures</li> <li>• Sound judgment</li> <li>• Ability to take the initiative</li> <li>• Critical Thinking</li> </ul> |
| Interests            | <ul style="list-style-type: none"> <li>• Not adverse to risk-taking</li> <li>• Motivated to take responsibility</li> <li>• Desire to serve the general public</li> </ul>  |
| OUTLOOK              | OCCUPATION  |

|                 |                          |
|-----------------|--------------------------|
| Stable          | Fire Chief               |
| Stable          | Fire Inspector           |
| Stable          | Firefighters             |
| <b>POSITION</b> | <b>SALARY (PER YEAR)</b> |
| Firefighter     | \$45,250 per year        |

*(Note: Individual earnings may vary based upon the job setting and position. These are ranges, not guarantees of earnings.) Sources of occupational information include the Bureau of Labor Elementary Statistical Methods, Occupational Outlook Handbook, and Americas Career Information Net.*

## DEGREE/CERTIFICATE

| CONCENTRATION OPTIONS                    | DEGREE / CERTIFICATE TYPE    | DEGREE PLANS                     |
|--|------------------------------|----------------------------------|
| Fire Science Protection Technology       | Associate in Applied Science | <a href="#">View Degree Plan</a> |
| Fire Officer                             | Associate in Applied Science | <a href="#">View Degree Plan</a> |
| Basic Firefighter                        | Certificate                  | <a href="#">View Degree Plan</a> |
| Fire Officer                             | Certificate                  | <a href="#">View Degree Plan</a> |
| Option 1: Emergency Services Dual Credit | Certificate                  | <a href="#">View Degree Plan</a> |

## FACULTY