



Wayne
County
Community
College
District

Fire Protection Technology

PAY

The median annual wage for firefighters was \$50,850 in May 2019.

JOB OUTLOOK

Firefighters typically work long and varied hours. Many work about 50 hours a week. Some firefighters work 24-hour shifts and are off duty the following 48 or 72 hours. Employment of firefighters is expected to grow 5 percent, about as fast as the average for all occupations. Continued population growth will increase the number of emergency calls requiring firefighter responses. The majority of situations that firefighters respond to are medical—rather than fire—emergencies, and the aging of the population will lead to an increased demand for emergency responders. In addition, jobs will be created as volunteer firefighters are converted to paid positions in areas where population growth creates the need for a full-time workforce. An increase in urban populations, where full-time firefighters are more common, also is expected to increase the demand for firefighters.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, April 2020, Firefighters, on the Internet at <http://www.bls.gov/ooh/protective-service/firefighters.htm>

Accredited by the Michigan Firefighter Training Council Bureau of Fire Services/OFFT.



ABOUT THE PROGRAM

Today's workforce needs to be responsive to the increasing request from more and more employers that seek individuals with diverse skill sets. Oftentimes, the jobs that lead to a high skill, high wage, high demand career require postsecondary education and training.

There continues to be a demand for college-trained people in the various fields of Fire Protection. The Fire Protection Technology Degree addresses the needs of a person wanting to be an entry level firefighter, those desiring advancement within their fire career as well as those individuals seeking fire-related jobs within companies. The program adheres to the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) model curriculum.



WHAT DO FIREFIGHTERS DO?

Firefighters use high-pressure hoses to suppress structural fires. Firefighters protect the public by responding to fires and other emergencies. They are frequently the first emergency personnel on the scene of an accident.

Firefighters' duties may change several times while they are at the scene of an emergency. In some cases, they might remain at disaster scenes for days, rescuing trapped survivors and assisting with medical treatment. Some firefighters work in hazardous materials units and are specially trained to control, prevent, and clean up hazardous materials, such as oil spills and chemical accidents.

WHERE DO THEY WORK?

Firefighters respond to non-fire emergencies such as car accidents. About 90 percent of paid firefighters worked for local governments in 2016. Most of the remainder worked for federal or state governments. Firefighters also work at airports, chemical plants, and other industrial sites. They work in both cities and rural areas.

When not on the scene of an emergency, firefighters work at fire stations, where they sleep, eat, and remain on call. When an alarm sounds, firefighters respond, regardless of the weather or the hour.

Recommended Sequence of Courses

Fire Protection Technology: College Certificate

| CR. No. | COURSE TITLE | CREDITS |
|---------|--------------|---------|
|---------|--------------|---------|

SEMESTER 1

| | | |
|---------|----------------------------------|----|
| FPT 110 | Fire Fighter I | .8 |
| FPT 115 | Fire Fighter I Lab | .5 |
| FPT 150 | Principles of Emergency Services | .3 |

SEMESTER TOTAL16

SEMESTER 2

| | | |
|-----------|---------------------|----|
| FPT 120 | Fire Fighter II | .5 |
| FPT 125 | Fire Fighter II Lab | .3 |
| Elective: | FPT | .6 |

SEMESTER TOTAL14

CERTIFICATE TOTAL30

Note: Certificate total hours may not include prerequisites.

Fire Protection Career Courses (Electives):

| | | |
|---------|---|----|
| FPT 100 | Incipient Fire Brigade | .2 |
| FPT 165 | Fire Protection Systems | .3 |
| FPT 170 | Strategy and Tactics | .3 |
| FPT 180 | Occupational Safety and Health for the Fire Service | .3 |
| FPT 185 | Fire Protection Hydraulics and Water Supply | .3 |
| FPT 205 | Introduction to Fire and Emergency Services Administration | .3 |
| FPT 235 | Legal Aspects of Fire | .3 |
| FPT 245 | Fire Investigation I | .3 |
| FPT 246 | Fire Investigation II | .4 |

Fire Protection Technology: Fire Administration Associate of Applied Science (A.A.S.)

| CR. No. | COURSE TITLE | CREDITS |
|---------|--------------|---------|
|---------|--------------|---------|

SEMESTER 1

| | | |
|-----------|-----------------------------------|----|
| FPT 150 | Principles of Emergency Services | .3 |
| BUS 225 | Computer Applications in Business | .3 |
| Elective: | FPT Courses | .3 |
| ENG 119 | English I | .3 |
| FPT 160 | Fire Behavior and Combustion | .3 |

SEMESTER TOTAL15

SEMESTER 2

| | | |
|-----------|--|----|
| FPT 155 | Fire Prevention | .3 |
| FPT 225 | Principles of Fire and Emergency Services Safety and Survival | .3 |
| ENG 120 | English II | .3 |
| SOC 100 | Introduction to Sociology | .3 |
| Elective: | FPT Courses | .3 |

SEMESTER TOTAL15

SEMESTER 3

| | | |
|---------|---|----|
| FPT 215 | Building Construction for the Fire Service | .3 |
| PS 101 | American Government | .3 |
| MAT 112 | Elementary Algebra | .3 |
| BIO 155 | Introduction to Biology | .4 |
| PSY 260 | Social Psychology | .3 |

SEMESTER TOTAL16

SEMESTER 4

| | | |
|-----------|-------------------------|----|
| FPT 175 | Fire Protection Systems | .3 |
| CHM 105 | Introductory Chemistry | .4 |
| Elective: | FPT Courses | .9 |

SEMESTER TOTAL16

FPT: ADMINISTRATION PROGRAM

A.A.S. TOTAL62

Note: Program total hours may not include prerequisites.

Fire Protection Technology: Fire Suppression Associate of Applied Science (A.A.S.)

| CR. No. | COURSE TITLE | CREDITS |
|---------|--------------|---------|
|---------|--------------|---------|

SEMESTER 1

| | | |
|---------|----------------------------------|----|
| FPT 110 | Fire Fighter I | .8 |
| FPT 115 | Fire Fighter I Lab | .5 |
| FPT 150 | Principles of Emergency Services | .3 |

SEMESTER TOTAL16

SEMESTER 2

| | | |
|-----------|---------------------|----|
| FPT 120 | Fire Fighter II | .5 |
| FPT 125 | Fire Fighter II Lab | .3 |
| ENG 119 | English 1 | .3 |
| Elective: | FPT | .6 |

SEMESTER TOTAL17

SEMESTER 3

| | | |
|---------|-----------------------------------|----|
| ENG 120 | English II | .3 |
| SOC 100 | Introduction to Sociology | .3 |
| BIO 155 | Introduction to Biology | .4 |
| PSY 260 | Social Psychology | .3 |
| BUS 225 | Computer Applications in Business | .3 |

SEMESTER TOTAL16

SEMESTER 4

| | | |
|---------|--|----|
| FPT 225 | Principles of Fire and Emergency Services Safety and Survival | .3 |
| CHM 105 | Introductory Chemistry | .4 |
| PS 101 | American Government | .3 |
| MAT 112 | Elementary Algebra | .3 |

SEMESTER TOTAL13

FPT: SUPPRESSION

A.A.S. PROGRAM TOTAL62

Note: Program total hours may not include prerequisites.

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