



Wayne  
County  
Community  
College  
District

# Fire Protection Technology

## PAY

The median annual wage for firefighters was \$49,080 in May 2017.

## 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 7 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 2018, 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
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#### SEMESTER 1

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

**SEMESTER TOTAL** .....16

#### SEMESTER 2

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

**SEMESTER TOTAL** .....14

**CERTIFICATE TOTAL** .....30

*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
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#### 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 TOTAL** .....15

#### 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 TOTAL** .....15

#### 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 TOTAL** .....16

#### SEMESTER 4

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

**SEMESTER TOTAL** .....16

### FPT: ADMINISTRATION PROGRAM

**A.A.S. TOTAL** .....62

*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
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#### SEMESTER 1

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

**SEMESTER TOTAL** .....16

#### SEMESTER 2

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

**SEMESTER TOTAL** .....17

#### 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 TOTAL** .....16

#### 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 TOTAL** .....13

### FPT: SUPPRESSION

**A.A.S. PROGRAM TOTAL** .....62

*Note: Program total hours may not include prerequisites.*

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