



Wayne  
County  
Community  
College  
District

# Facility Maintenance

## ABOUT THE PROGRAM

The Facility Maintenance Associate of Applied Science degree and College Certificate program prepares the student for immediate employment as a facility maintenance technician, maintenance and stationary engineer, and facility maintenance manager at health care institutions, large office towers, apartment complexes, professional buildings, multi-use facilities, plants, government and educational building, etc.



Students will be able to perform work pertaining to carpentry, plumbing, ground maintenance, electrical, general maintenance of heating, ventilation and air conditioning and refrigeration, (HVA/R) and operation and complete maintenance of boiler plants. The program prepares students to take local and State of Michigan examinations for obtaining license(s) as Mechanical Maintenance and Mechanics Education and Certification for Health Care (MECH) State of Michigan. The certificate will fulfill the competency requirements for the Joint Commission on Accreditation of Hospital Organization (JCAHO) for facility maintenance training.

## WHAT DO FACILITY MAINTENANCE TECHNICIANS DO?

General maintenance and repair workers maintain and repair machines, mechanical equipment, and buildings. They work on plumbing, electrical, and air-conditioning and heating systems.

## WHERE DO THEY WORK?

General maintenance and repair workers often carry out many different tasks in a single day. They could work at any number of locations, both indoor and outdoor. They may work inside a single building, such as a hotel or hospital, or be responsible for the maintenance of many buildings, such as those in an apartment complex or college campus.

*For more information about our graduation rates, the median debt of students who have completed this program, and other important gainful employment information, please visit the following link:*  
<http://www.wcccd.edu/dept/FacMain/FacMain.html>



## PAY

The median annual wage for general maintenance and repair workers was \$37,670 in May 2017.

## JOB OUTLOOK

Employment of general maintenance and repair workers is projected to grow 8 percent from 2016 to 2026, about as fast as the average for all occupations. Demand will increase as the building and real estate industries continue to recover.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, April 2018 General Maintenance and Repair Workers, on the Internet at <http://www.bls.gov/ooh/installation-maintenance-and-repair/general-maintenance-and-repair-workers.htm>*

## Recommended Sequence of Courses

### Facility Maintenance: College Certificate

CR. No.	COURSE TITLE	CREDITS
<b><u>SEMESTER 1</u></b>		
ENG 119	English I	3
FM 101	Basic Facility Maintenance	3
FM 102	Plumbing and Pipe Fitting	3
MAT 121	Technical Mathematics I	3
<b>SEMESTER TOTAL</b>		<b>12</b>

### **SEMESTER 2**

FM 103	Carpentry	3
FM 104	General Maintenance	3
HVA 106	Basic Heating and Heating Controls	5
<b>SEMESTER TOTAL</b>		<b>11</b>

### **SEMESTER 3**

EE 103	Residential Wiring	3
FM 105	Grounds Maintenance	3
HVA 200	Introduction to Boiler Plant Maintenance	3
<b>SEMESTER TOTAL</b>		<b>9</b>

**CERTIFICATE TOTAL** .....32

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

### Facility Maintenance: Associate of Applied Science (A.A.S.)

CR. No.	COURSE TITLE	CREDITS
<b><u>SEMESTER 1</u></b>		
ENG 119	English I	3
FM 101	Basic Facility Maintenance	3
FM 102	Plumbing and Pipe Fitting	3
MAT 121	Technical Mathematics I	3
<b>SEMESTER TOTAL</b>		<b>12</b>

### **SEMESTER 2**

FM 103	Carpentry	3
FM 104	General Maintenance	3
HVA 106	Basic Heating and Heating Controls	5
MAT 122	Technical Mathematics II	3
<b>SEMESTER TOTAL</b>		<b>14</b>

### **SEMESTER 3**

ENG 134	Technical Communications	3
FM 105	Grounds Maintenance	3
HVA 200	Introduction to Boiler Plant Maintenance	3
PS 101	American Government	3
<b>SEMESTER TOTAL</b>		<b>12</b>

### **SEMESTER 4**

Elective	Other	3
FM 106	Safety and Support Services	3
HVA 118	Codes and Regulations	3
HVA 205	Steam I	3
<b>SEMESTER TOTAL</b>		<b>12</b>

### **SEMESTER 5**

Elective	Natural Science or Social Science	3
Elective	Other	3
FM 299	Facility Maintenance Co-op	3
HVA 215	Boiler Room Accessories	3
<b>SEMESTER TOTAL</b>		<b>12</b>

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

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