APPRENTICESHIPS
IN OAKLAND COUNTY
& SOUTHEASTERN MICHIGAN
2017-2019 EDITION

SECOND EDITION

OAKLAND COUNTY MICHIGAN
ECONOMIC DEVELOPMENT & COMMUNITY AFFAIRS

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A Message from Oakland County Executive L. Brooks Patterson

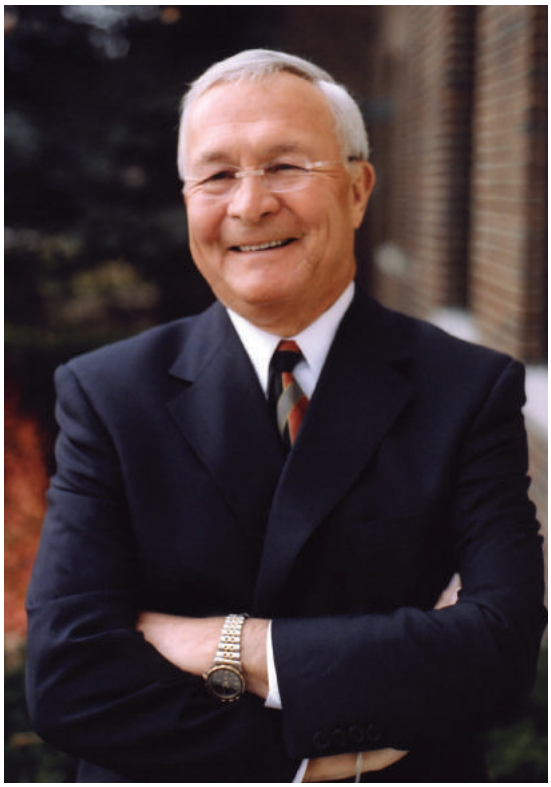
On behalf of our region's employers, labor organizations and educators, I present the sixth edition of our apprenticeships guide. This valuable resource provides important information about career opportunities in Oakland County and the region that could change your life.

A decade ago, Oakland County Michigan Works! created the first apprenticeship guide to meet the growing needs of our employers. Manufacturing was rapidly evolving and employers were requiring a more skilled and knowledge-based workforce; yet not everyone had the desire or the financial ability to attend a four-year university. At the same time, it was becoming increasingly apparent there was not an adequate pipeline of qualified candidates to meet the demand left by a retiring workforce in the skilled trades. Also, there was a perception by some that working in a skilled trade or in manufacturing was not "cool" or somehow inferior.

We're working to change that mindset. Sixty apprenticeships – our largest guide yet – are listed in 80-pages. Each apprenticeship listing comes with a job description, hourly and yearly wage projections, future job prospects and the contact information about the specific opportunity to get you started. Opportunities include construction trades, manufacturing and production, health care and medical professions, service providers and new this year – technology professions such as Information Technology Project Manager and Network and Computer Systems Administrator.

Apprenticeships offer many important benefits, providing:

- Employers with a skilled and productive workforce
- Employees with a career path, new skills and better jobs
- Increased skills which allow employees to keep pace with rapidly changing technology
- Pathways to middle-class careers with wages to support a family
- A new career without crushing student loan debt and a wage while you receive on-the-job training



The guide is also part of our larger effort to educate young people about the benefits of apprenticeships. MITradeSchool.org allows you to explore more than 100 careers in the skilled trades. Our annual Manufacturing Day, which takes 400 students into dozens of Oakland County companies to see first-hand that the manufacturing their grandfathers knew is not the manufacturing of today.

Oakland County Michigan Works! is dedicated to attracting and retaining a talented workforce while meeting the region's employment needs.

SECTION II

Apprenticeship Q&As

Q: What is an apprenticeship?

An apprenticeship is a combination of structured on-the-job training and related classroom instruction, through which workers learn the practical and theoretical aspects of a highly skilled occupation. Apprenticeship programs can be sponsored by individual employers, joint employer and labor groups, and/or employer associations.

Q: What occupations offer apprenticeships?

More than 1,000 occupations are approved for apprenticeships though the U.S. Department of Labor's Office of Apprenticeship. Many apprenticeships are in the building trades and manufacturing fields (e.g., carpenter and machinist), but apprenticeships are also available in health care, social services, education, law enforcement, child care development, and new emerging sectors, including information technology, energy, telecommunications and others.

Q: How long does an apprenticeship last?

Apprenticeships can be one-to-five years, but most last four years. During this time, you'll receive a combination of on-the-job training and classroom instruction at a community college or apprenticeship school.

A four-year apprenticeship typically includes 8,000 hours of work supervised by a journey-level craftsperson or trade professional and at least 576 hours of classroom instruction. Over the course of the four years, this would equal 40 hours per week of work and an average of less than three hours per week in the classroom (although the actual class schedule may be different).

Q: Does an apprentice earn wages?

Since an apprentice is a full-time employee of the company that sponsors the apprenticeship, he/she earns wages just like any other employee. Starting wages are usually 40-50 percent of the journeyman's wage, and go up as the apprentice completes training and gains more experience and skills.

Q: Who is eligible to become an apprentice?

Apprenticeships are open to everybody. All require that the apprentice be at least 18 years old and have a high school diploma or certificate. A School-To-Registered Apprenticeship (STRA), however, is the one exception that allows high school students to start an apprenticeship at age 16. Strong math and reading skills are essential.

Q: Why should I become an apprentice?

- Apprentices begin working (and earning money) immediately in their chosen field.
- All the training and education apprentices receive are directly related to their work.
- After successfully completing the program, apprentices receive a nationally recognized Certificate of Completion from the U.S. Department of Labor's Office of Apprenticeship.
- If the apprenticeship is sponsored by a labor union, the apprentice will also receive a journeyman's card, and a guarantee of excellent wages and benefits anywhere in the country.

**Apprentices who take their instruction at a community college will receive a certificate and may be able to apply those credits toward an associate's degree. Many associate's degrees can be applied toward a bachelor's degree at a four-year college or university.*

Q: How do I become an apprentice?

There are two ways to become an apprentice: through a partnership between a labor organization and an employer (called a Joint Apprenticeship Committee, or a JAC), or through a partnership between a community college and an employer.

JACs may have different requirements or procedures for applying for an apprenticeship; some will accept applications only from current employees and others are open to anyone. Applicants must pass a test and those with the highest scores are hired first. You should contact the JAC for a particular apprenticeship for more information.

The second path to an apprenticeship is a partnership between a community college and an employer. The classes are usually offered on the college's regular schedule, but remember that just taking the classes doesn't make you an apprentice; you must be hired by an apprenticeship employer first. If you're interested in a particular apprenticeship but aren't sure whether there are any openings, contact the Apprentice Coordinator at the college for assistance.

**All certified apprentices who attend a community college can apply their related technical instruction toward an associate's degree. An apprentice can receive up to 32 credit hours toward his/her associate's degree, which consists of 62 credit hours. Contact Oakland Community College at (248) 232-4050 or another community college of your choice.*

Q: How do I prepare for an apprenticeship?

- Take and excel at math and science classes every year of high school.
- Learn how to prepare for and take exams.
- Work part time or during the summer for an employer with whom you are interested in apprenticing. Many employers prefer to hire internal candidates for apprenticeships.
- Participate in such after school programs as First Robotics or Science Olympiad.
- Volunteer for community organizations like Habitat for Humanity.
- Get involved in such extracurricular activities as woodworking, drawing, computers, robotics or science experiments.
- Do informational interviews with potential apprenticeship employers or the apprentice coordinator at the community college. This will help you understand the job more clearly and demonstrates your interest and commitment.
- If you are lacking some of the required skills or classes required of an apprentice, take classes through the community college.

Q: Do apprentices go to college?

Apprenticeships are a combination of on-the-job training (OJT) and classroom education that directly applies to the job. Classes may be offered by the JAC, the employer, or at a local community college. The classes you take toward an apprenticeship may count toward an associate degree; contact the Apprentice Coordinator for more information.

Q: Where can I learn more about apprenticeships?

Please visit the following websites:

- Explore more than 100 careers in the skilled trades, find out how to learn a trade and get to know who's hiring at MiTradeSchool.org.
- The Michigan Educators Apprenticeship Training Association (meata.org).
- The U.S. Department of Labor's Office of Apprenticeship (doleta.gov/oa/).
- For more information about occupations, including those that offer apprenticeships, visit milmi.org. Select Occupation Information from the links on the left. The Occupational Information Tools section has information about occupations, wages, skills needed, working conditions, education and training needed and more.
- The Michigan Apprenticeship Steering Committee, Inc. (masci.org).

SECTION III

Employer Benefits

When employers partner with a labor union or a community college to sponsor an apprenticeship, they realize several benefits.

For Example, Apprenticeships:

- Provide a catalyst for high performance and productivity and a committed workforce
- Impart the knowledge and skills of experienced workers to new employees
- Offer an excellent return on your training investment
- Develop processes for building partnerships with certification and licensing agencies
- Increase employee attentiveness to policies, procedures, safety issues and security programs
- Add a valuable inducement for recruiting and retaining a high quality workforce
- Increase employee retention
- Are business driven
- May qualify for state tax benefits or other financial support

A Registered Apprenticeship is a proven method for increasing the return on an employer's training investment and for developing the human resources the employer needs to succeed. It combines the concepts of on-the-job training, mentoring and related instruction. It offers the flexibility to train the employer's workforce to meet his/her standards and needs.

Additional Apprenticeship Benefits Include:

- Competency levels increase rapidly; employees very quickly put their newly acquired knowledge and expertise to productive use
- Apprenticeship programs respond to real-world business goals, including increased productivity/performance, greater efficiency and improved attentiveness to safety concerns. Employers in the Energy Industry, for example, partner with credentialing and licensing agencies to ensure that apprentices get the training and instruction they need to meet the high level of competency the industry requires.

For additional information, see doleta.gov/OA/employer.cfm and doleta.gov/oa/employers/apprenticeship_toolkit.pdf.

If you are an employer and want more information about sponsoring an apprenticeship, please contact your local community college's Apprentice Coordinator. Oakland Community College's coordinator can be reached at (248) 232-4050.

SECTION IV

Apprenticeships by Category

This section and the next section of the booklet contain information about specific occupations for which apprenticeships have been developed. This is not a complete list – more than 1,000 occupations have recognized apprenticeships.

The apprenticeships in this section are organized by field of interest so you can explore different options with similar skills and work environments. Each entry that appears alphabetically in section five contains the following information:

Job description – A description of the general job tasks and responsibilities for this occupation.

Length of apprenticeship – Apprenticeships last from one to five years, although most are four years. All apprenticeships include classroom instruction.

Labor market forecast – The number of job openings expected in the Detroit Metro Prosperity Region in the next five years. These are projections and do not guarantee a job opening. All projections are from the Michigan Department of Technology, Management and Budget's Bureau of Labor Market Information and Strategic Initiatives, as found on the Career InfoNet website careerinfonet.org.

Average hourly/yearly wage – The average hourly and yearly wage for this occupation in the Detroit Metropolitan Statistical Area (MSA). These are averages and do not guarantee the wage for a particular occupation. All wage information is from the Michigan Department of Technology, Management and Budget's Bureau of Labor Market Information and Strategic Initiatives, as found in the 2016 Annual Planning Information Report.

Apprenticeship programs – A list of the sponsoring organizations for a specific apprenticeship. Some are created through a Joint Apprenticeship Committee (JAC); others are coordinated through local unions, technical training centers and/or community colleges.

Applicant requirements – General admission requirements for the apprenticeship are listed here. There may be additional requirements that are not listed. Meeting the requirements is not a guarantee of admission to a program.

If you are interested in an apprenticeship that is not listed, or if you'd like to be an apprentice but aren't sure what fields are a good fit for your interests and skills, contact the Apprentice Coordinator at your school or community college for more assistance.

Every effort has been made to ensure that the information in this booklet is complete and up-to-date; please contact the listed Apprentice Coordinator or program contact for the most recent information about a particular apprenticeship.

This list is not intended to imply that an apprenticeship is currently available. Contact the JAC or Apprentice Coordinator for more information about the availability of a particular apprenticeship. If you cannot reach the listed contact, please call the Oakland County Workforce Development Division at (248) 858-5520 or e-mail llewellynj@oakgov.com.

The Oakland County Executive supports all of the apprenticeships that appear on the list but he makes no endorsement or recommendation for any specific program.

Occupations by Category

CONSTRUCTION TRADES

11 Asbestos Worker/Hazardous Waste Worker
16 Boilermaker
17 Bricklayer
18 Carpenter
19 Cement Mason
32 Drywall Finisher/Taper
33 Electrician
34 Electrician/Inside Wireman
35 Electrician/Telecommunications Installer Technician
36 Elevator Constructor/Installer
37 Facility Maintenance Mechanic
38 Glazier and Glassworker
40 Heat and Frost Insulator Green Energy Movement
41 Heating, Air Conditioning and Refrigeration Mechanic and Installer
44 Iron Worker
51 Millwright
56 Operating Engineer
57 Painter
61 Pipefitter
62 Plasterer
63 Plumber
64 Roofer and Waterproofer
65 Sheet Metal Worker and HVAC
66 Sprinkler Fitter
67 Tile, Marble and Terrazzo Mason
71 Addendum: Construction Craft Laborer

MANUFACTURING AND PRODUCTION

22 CNC Operator
23 CNC Programmer
42 Industrial Manufacturing Technician
45 Machine Repairer
46 Material Engineer
47 Mechatronics Technician
50 Metal Fabricator
52 Mold and Model Maker
68 Tool and Die Maker
70 Welder

HEALTH CARE AND MEDICAL PROFESSIONS

15 Biomedical Equipment Technician
20 Certified Nurse's Aide
30 Dental Assistant
39 Health Unit Coordinator
48 Medical Assistant
49 Medical Transcriptionist
58 Paramedic
59 Pharmacy Assistant/Technician
60 Physical Therapy Assistant

SERVICE PROFESSIONS

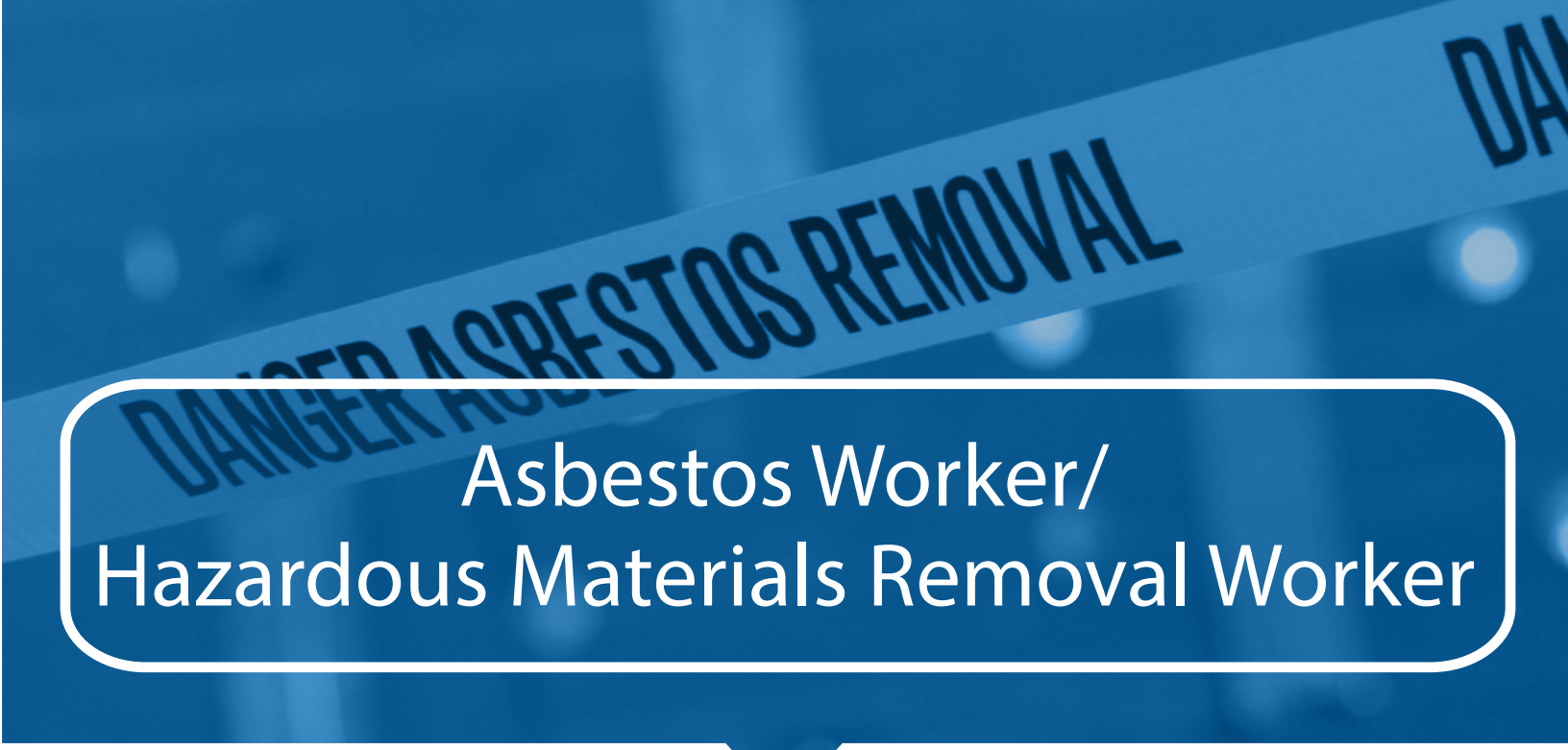
12 Auto Body Repairer
13 Automobile Mechanic
14 Baker
21 Child Development Specialist
29 Cook/Culinary Arts
31 Diesel Mechanic
55 Office Manager/Administrative Assistant
69 Undercar Specialist

TECHNOLOGY PROFESSIONS

24 Computer Desktop Support Technician
25 Computer Operator
26 Computer Programmer
27 Computer Support Specialist
28 Computer Systems Analyst
43 Information Technology Project Manager
53 Network and Computer Systems Administrator
54 Network Support Technician

SECTION V

Apprenticeship Descriptions



Asbestos Worker/ Hazardous Materials Removal Worker

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
11 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $22.09
YEARLY $45,940

JOB DESCRIPTION

Asbestos workers and other hazardous waste workers identify, remove, package, transport or dispose of hazardous materials including asbestos, lead-based paint, waste oil, transmission fluid, radioactive materials and contaminated soil. These workers also apply insulation and wrap pipe and tanks for heat, frost and condensation insulation in industrial settings.

APPRENTICESHIP SCHOOL

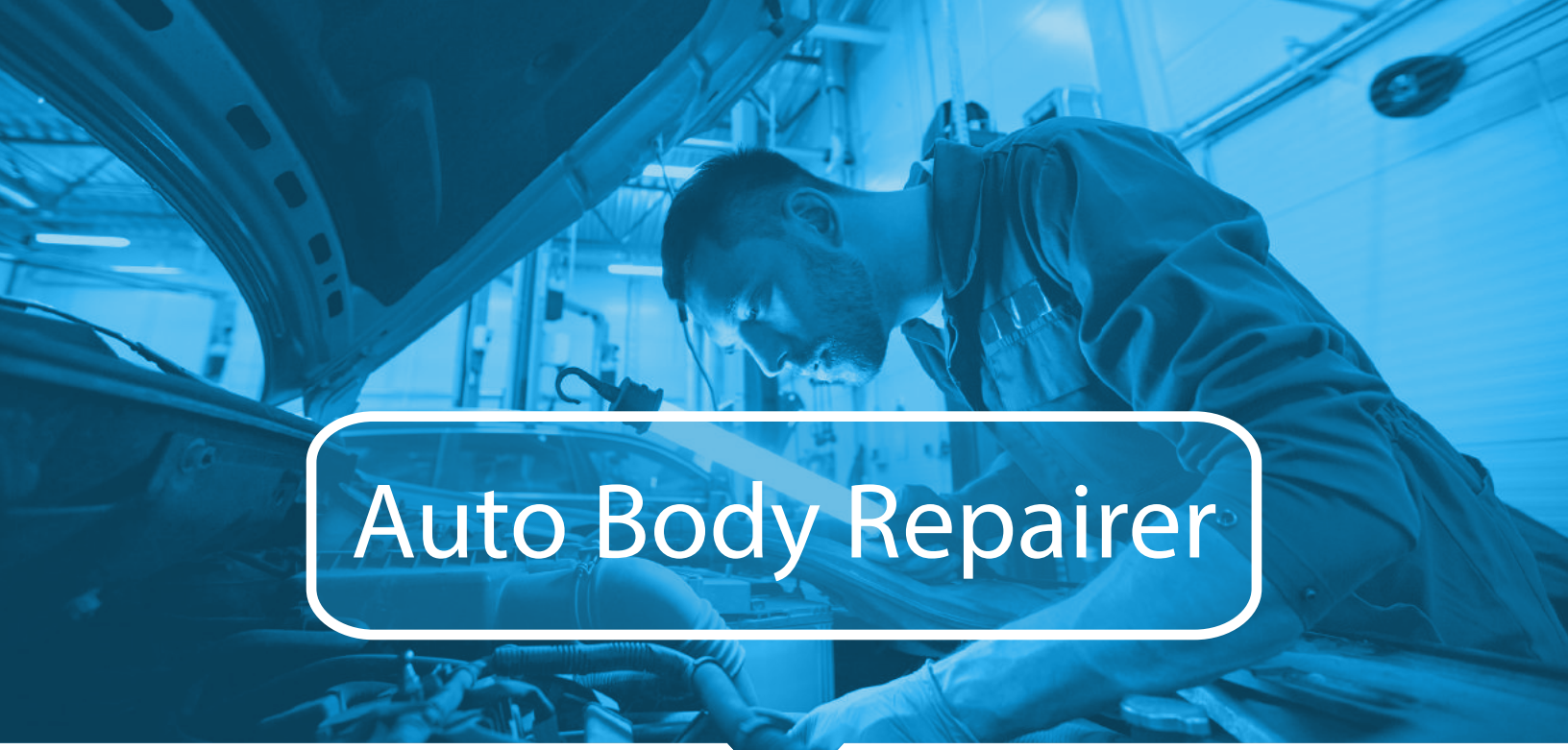
Asbestos Workers Apprentice Training Center
Local 207 | 26453 Northline Road
Taylor, Michigan 48336

Contact

Apprentice Coordinator: (734) 947-1745
local207.org

Applicant Requirements

Applicants must have a high school diploma or GED, be at least 18 years old and possess a valid driver's license.



Auto Body Repairer

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
64 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $28.11
YEARLY $58,470

JOB DESCRIPTION

Auto body repairers fix damaged bodies and body parts of automotive vehicles, including cars, vans, trucks, buses, campers and trailers.

APPRENTICESHIP PROGRAM

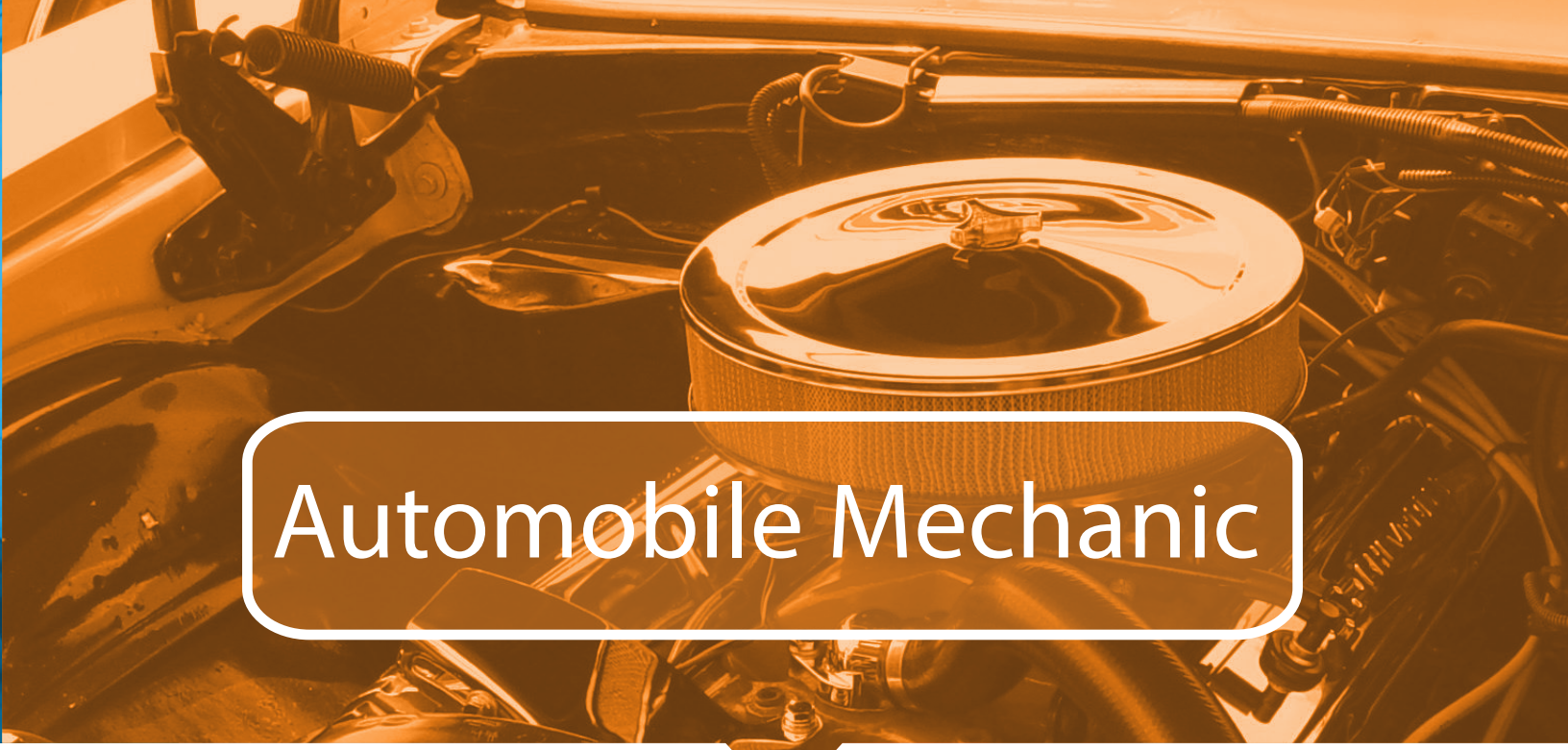
Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact

Apprentice Coordinator: (248) 232-4050

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Automobile Mechanic

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
351 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $20.18
YEARLY $41,980

JOB DESCRIPTION

Automobile mechanics diagnose, repair and overhaul automobiles, buses, trucks and automotive vehicles.

APPRENTICESHIP PROGRAMS

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Baker

LENGTH
of Apprenticeship
1-2 YEARS

MARKET FORECAST
for Metro Detroit Area
72 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $13.17
YEARLY $27,400

JOB DESCRIPTION

Bakers mix and bake ingredients in accordance with recipes to produce breads, rolls, cookies, cakes, pies, pastries or other baked goods.

APPRENTICESHIP PROGRAM

Schoolcraft College
(Apprenticeship 6,000 Hours)
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Biomedical Equipment Technician

LENGTH
of Apprenticeship
8,000 HOURS

MARKET FORECAST
for Metro Detroit Area
NO INFORMATION AVAILABLE

WAGES
for Metro Detroit Area
HOURLY $36.14
YEARLY $45,940

JOB DESCRIPTION

Biomedical equipment technicians apply knowledge of engineering, biology and biomechanical principles to the design, development and evaluation of biological and health systems and products, including artificial organs, prostheses, instrumentation, medical information systems and health management and care delivery systems.

APPRENTICESHIP PROGRAM

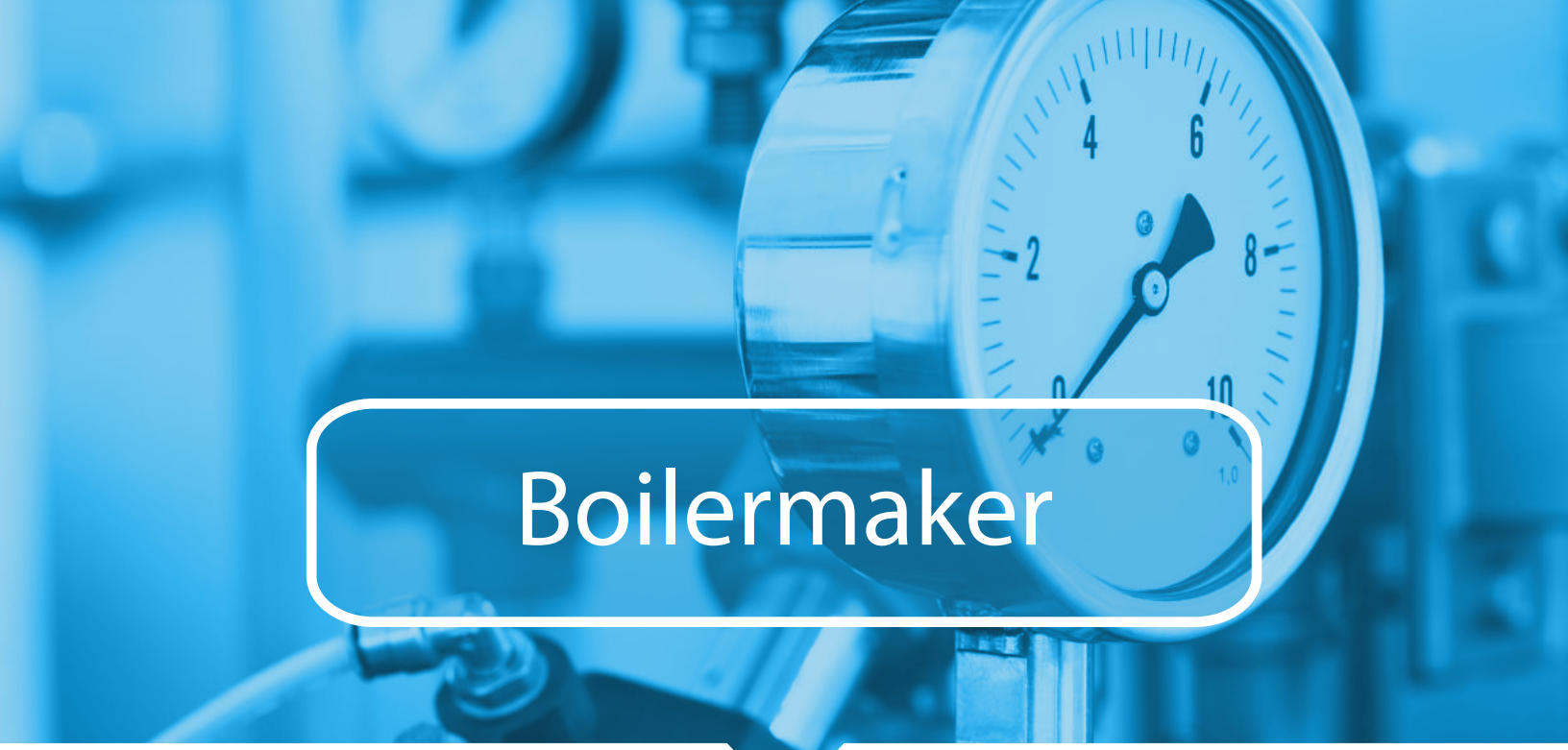
Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Boilermaker

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
statewide
10 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $32.91
YEARLY $68,460

JOB DESCRIPTION

Boilermakers construct and repair utility plants, chemical plants, automotive plants, refineries, steel manufacturing facilities, ore processing plants and mine plants throughout Michigan.

APPRENTICESHIP SCHOOL

Boilermakers Training Center
1755 Fairlane Drive
Allen Park, Michigan 48101

Contact

Administrator: (313) 584-8520
boilermakerslocal169.com

Applicant Requirements

Applicants must have a high school diploma or GED, and be 18 or older. Also required are passage of an entrance exam, a pre-physical evaluation and a drug test.

Bricklayer

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
28 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.72
YEARLY $53,510

JOB DESCRIPTION

Bricklayers construct walls, partitions, fireplaces, chimneys and other structures from brick and other masonry materials, including concrete, cinder or gypsum block and from precast panels made of brimstone, marble, structural tile or terra cotta. They also install the brick linings of industrial kilns and furnaces.

APPRENTICESHIP SCHOOL

International Masonry Institute
Local #2 | Detroit Metropolitan Masonry
Joint Apprentice Training Center
21031 Ryan Road
Warren, Michigan 48091

Contact

Tom Ward, Apprentice Coordinator: (586) 757-6668
tom.ward@bricklayers.org
bricklayers.org *(Click on the IMI Training tab)*

Applicant Requirements

Applicants must be 18 or older, have a driver's license, and have completed two years of high school. Residency in Wayne, Oakland, Macomb or Monroe counties is required. Twelve weeks of pre-apprentice training is also required.

Carpenter

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
190 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $23.98
YEARLY $49,890

JOB DESCRIPTION

Carpenters, the largest group of building trades workers, are employed in all facets of construction activity. They erect the building's wood frame, including sub-flooring, sheathing, partitions, floor joists, studs and rafters. They install heavy timber, build forms, erect scaffolding and install floor coverings. When a building is ready for trimming, carpenters install molding, wood paneling, cabinets, window sashes, door frames, doors and hardware. They also build stairs and lay floors. In addition, carpenters assemble plywood, wallboard and many other materials.

APPRENTICESHIP SCHOOL

Detroit Carpenters Apprenticeship School

1401 Farrow
Ferndale, Michigan 48220

Contact
Director: (248) 541-2740
detcarpapp.org

Applicant Requirements
Applicants must have a high school diploma or GED, birth certificate, Social Security card, and picture identification at the time of registration. Applicants must be at least 17 and be able to pass a drug screen.

ABC/SEMCA, an affiliate of Construction Education Trust

31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact
Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements
Applicants must be 18 years or older and provide proof of high school graduation or GED.

COLLEGE APPRENTICESHIP PROGRAMS

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator: (586) 445-7519

College Admission Requirements
Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Cement Mason

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
43 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $22.54
YEARLY $46,890

JOB DESCRIPTION

Cement masons smooth and finish the exposed concrete surfaces of all types of construction projects. These projects range from small jobs, including patios, floors, walls, sidewalks or curbs to work on huge dams, miles of concrete highways, foundations and walls of large buildings, airport runways and missile launching sites.

APPRENTICESHIP SCHOOLS

Operative Plasterers and Cement Masons International Union

Local # 514 | 1154 East Lincoln Avenue
Madison Heights, Michigan 48071

Contact
(248) 548-0800 or
Brian Hersch (313) 350-0389

International Masonry Institute

Local #1 | 21031 Ryan Road
Warren, Michigan 48091

Contact
Tom Ward, Apprentice Coordinator: (586)757-6668
tom.ward@bricklayers.org
bricklayers.org *(Click on the IMI Training tab)*

Applicant Requirements

Applicants must be at least 18, have a valid driver's license and reliable transportation. A high school diploma or GED is preferred. Pre-job training is required, and applicants must reside in Wayne, Oakland, Macomb, Monroe or St. Clair counties.

Certified Nurse's Aide

LENGTH
of Apprenticeship
1 YEAR

MARKET FORECAST
for Metro Detroit Area
670 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $13.57
YEARLY $28,230

JOB DESCRIPTION

Nurse's aides provide basic patient care under the direction of nursing staff. They perform various duties, including feeding, bathing, dressing, grooming or moving patients.

APPRENTICESHIP PROGRAMS

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator: (810) 762-0224

Schoolcraft College

18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator: (734) 462-4400

Admission Requirements
Applicants must be have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Child Development Specialist

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
426 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $10.90
YEARLY $22,680

JOB DESCRIPTION

Child development specialists attend to children at schools, businesses, private households and child care institutions. They perform various tasks including dressing, feeding and bathing children and overseeing their play.

APPRENTICESHIP PROGRAMS

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Schoolcraft College

(Apprenticeship 4,000 hours)
18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator:
(734) 462-4400

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

CNC Operator

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
153 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $19.55
YEARLY $40,660

JOB DESCRIPTION

CNC operators operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

CNC Programmer

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
48 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $24.69
YEARLY $51,350

JOB DESCRIPTION

CNC programmers develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment or systems.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Computer Desktop Support Technician

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
428 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $23.98
YEARLY $49,890

JOB DESCRIPTION

Computer desktop support technicians provide technical assistance to computer users. They answer questions or resolve computer problems for clients in person, via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail and operating systems.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Computer Operator

LENGTH
of Apprenticeship
6,000 HOURS

MARKET FORECAST
for Metro Detroit Area
7 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $19.01
YEARLY $39,540

JOB DESCRIPTION

Computer operators monitor and control electronic computer and peripheral electronic data processing equipment to process business, scientific, engineering and other data according to operating instructions. They monitor and respond to operating and error messages and may enter commands at a computer terminal and set controls on computer and peripheral devices.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Computer Programmer

LENGTH
of Apprenticeship
4,000 HOURS

MARKET FORECAST
for Metro Detroit Area
218 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $35.94
YEARLY $74,750

JOB DESCRIPTION

Computer programmers create, modify and test the code, forms and scripts that allow computer applications to run. They work from specifications drawn up by software developers or other individuals and may assist software developers by analyzing user needs and designing software solutions. Computer programmers may also develop and write computer programs to store, locate and retrieve specific documents, data and information.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Computer Support Specialist

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
428 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $23.98
YEARLY $49,890

JOB DESCRIPTION

Computer support specialists provide technical assistance to computer users. They answer questions or resolve computer problems for clients in person, via telephone or electronically. They may also provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail and operating systems.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Computer Systems Analyst

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
405 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $43.09
YEARLY $89,630

JOB DESCRIPTION

Computer systems analysts analyze science, engineering, business and other data processing problems to implement and improve computer systems. They analyze user requirements, procedures and problems to automate or improve existing systems and review computer system capabilities, workflow and scheduling limitations. Computer systems analysts may also analyze or recommend commercially available software.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Cook/Culinary Arts

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
24 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $21.34
YEARLY $44,390

JOB DESCRIPTION

Cooks prepare, season and cook soups, meats, vegetables, desserts and other foodstuffs for consumption in eating establishments; read menus to estimate food requirements and order food from suppliers; adjust thermostat controls to regulate temperature of ovens, broilers, grills, roasters and steam kettles; measure and mix ingredients according to recipe using a variety of kitchen utensils and equipment such as blenders, mixers, grinders, slicers and tenderizers to prepare soups, salads, gravies, desserts, sauces and casseroles; bake, roast, broil and steam meats, fish, vegetables and other foods; add seasoning to foods during mixing or cooking according to personal judgment and experience; observe and test foods being cooked by tasting, smelling and piercing with a fork to determine that it is cooked; carve meats and portion food on serving plates; add gravies and sauces; and garnish servings to fill orders.

APPRENTICESHIP PROGRAMS

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Schoolcraft College

18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Dental Assistant

LENGTH
of Apprenticeship
1 YEAR

MARKET FORECAST
for Metro Detroit Area
133 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $15.81
YEARLY $32,890

JOB DESCRIPTION

Dental assistants assist dentists by preparing the patient for treatment, setting up equipment and maintaining dental records.

APPRENTICESHIP PROGRAMS

Mott Community College

1401 East Court Street
Flint, Michigan 48503

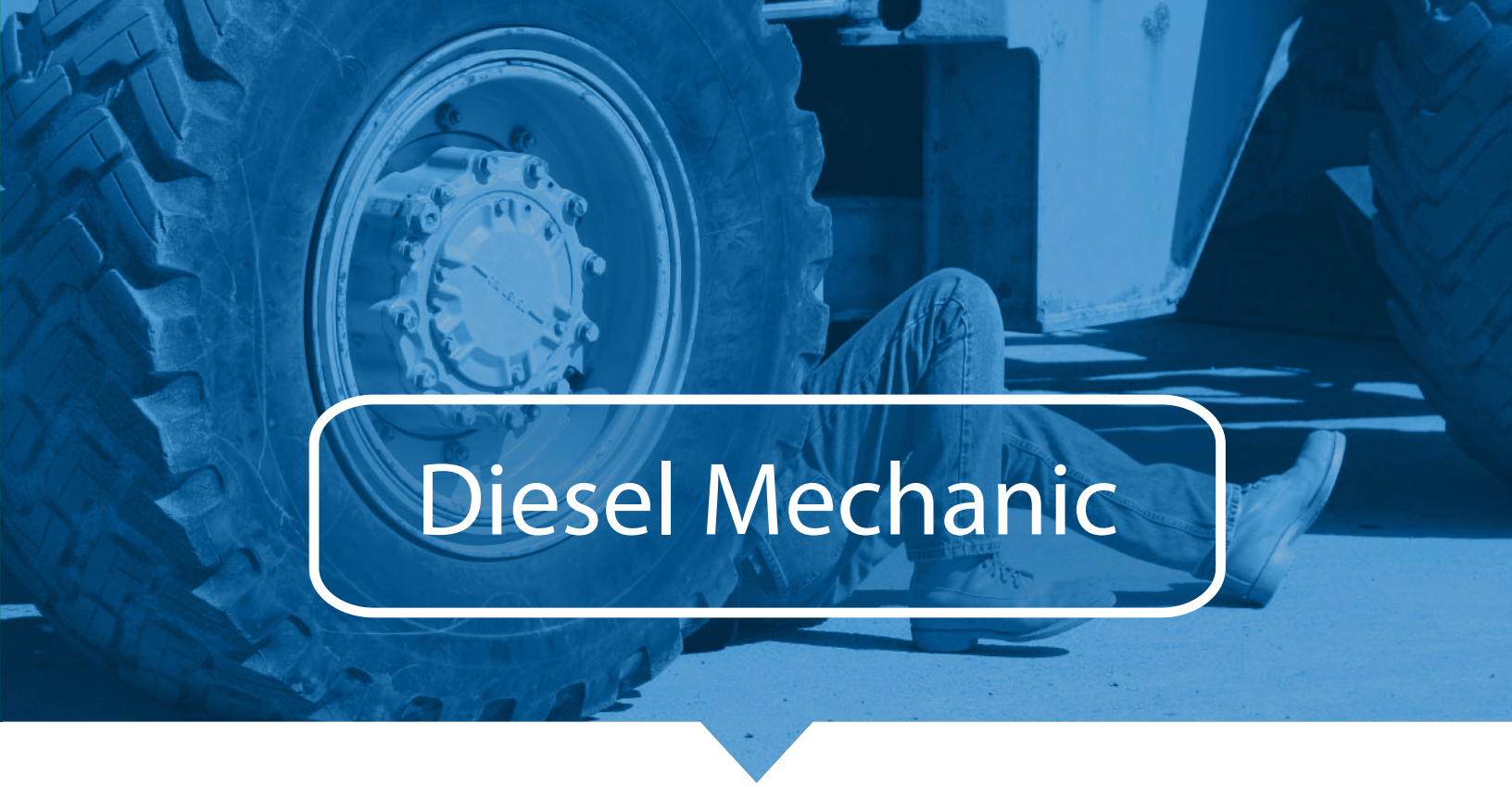
Contact
Apprentice Coordinator: (810) 762-0224

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator: (248) 232-4050

Admission Requirements
Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Diesel Mechanic

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
270 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $22.61
YEARLY $48,260

JOB DESCRIPTION

Diesel mechanics diagnose, adjust, repair or overhaul trucks, buses and all types of diesel engines. These mechanics work primarily on automobile diesel engines.

APPRENTICESHIP PROGRAMS

Henry Ford College

5101 Evergreen Road
Dearborn, Michigan 48128

Contact
Apprentice Coordinator: (313) 845-6348

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator: (248) 232-4050

Admission Requirements
Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Drywall Finisher/Taper

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
8 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.27
YEARLY $52,560

JOB DESCRIPTION

Drywall finishers apply drywall taping compounds and tape to wall surfaces in preparation for painters, paper hangers, carpenters and tile masons. Drywall finishers use hand and power tools to apply the drywall compounds and tape to the surface.

APPRENTICESHIP SCHOOL

Painters Apprenticeship School
14587 Barber Street
Warren, Michigan 48088

Contact

Apprentice Instructor: (586) 552-4481

Applicant Requirements

Applicant must have a high school diploma or GED and a drug test must be taken and passed.

Electrician

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
267 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $31.93
YEARLY $66,400

JOB DESCRIPTION

Electricians lay-out, assemble, install and test electrical fixtures, apparatus and wiring used in electrical systems. They also install and connect electrical machinery, equipment, controls, signal and communication systems, switches, conduits, circuit breakers, wires, lights and other electrical components.

APPRENTICESHIP SCHOOL

Detroit Joint Apprenticeship and Training Committee

Electrical Industry Training Center
2277 East Eleven Mile Road,
Suite #1 Warren, Michigan 48092

Contact
Training Director: (586) 751-6600
detroiteitc.org or ibewlocal58.org
(this website is application for admission)

Applicant Requirements
Applicants must have a high school diploma or GED, with a minimum of one year of algebra (preferably math through high school algebra or basic college algebra).

ABC/SEMCA, an affiliate of Construction Education Trust

31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact
Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements
Applicants must be 18 years or older and provide proof of high school graduation or GED.

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College

5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093

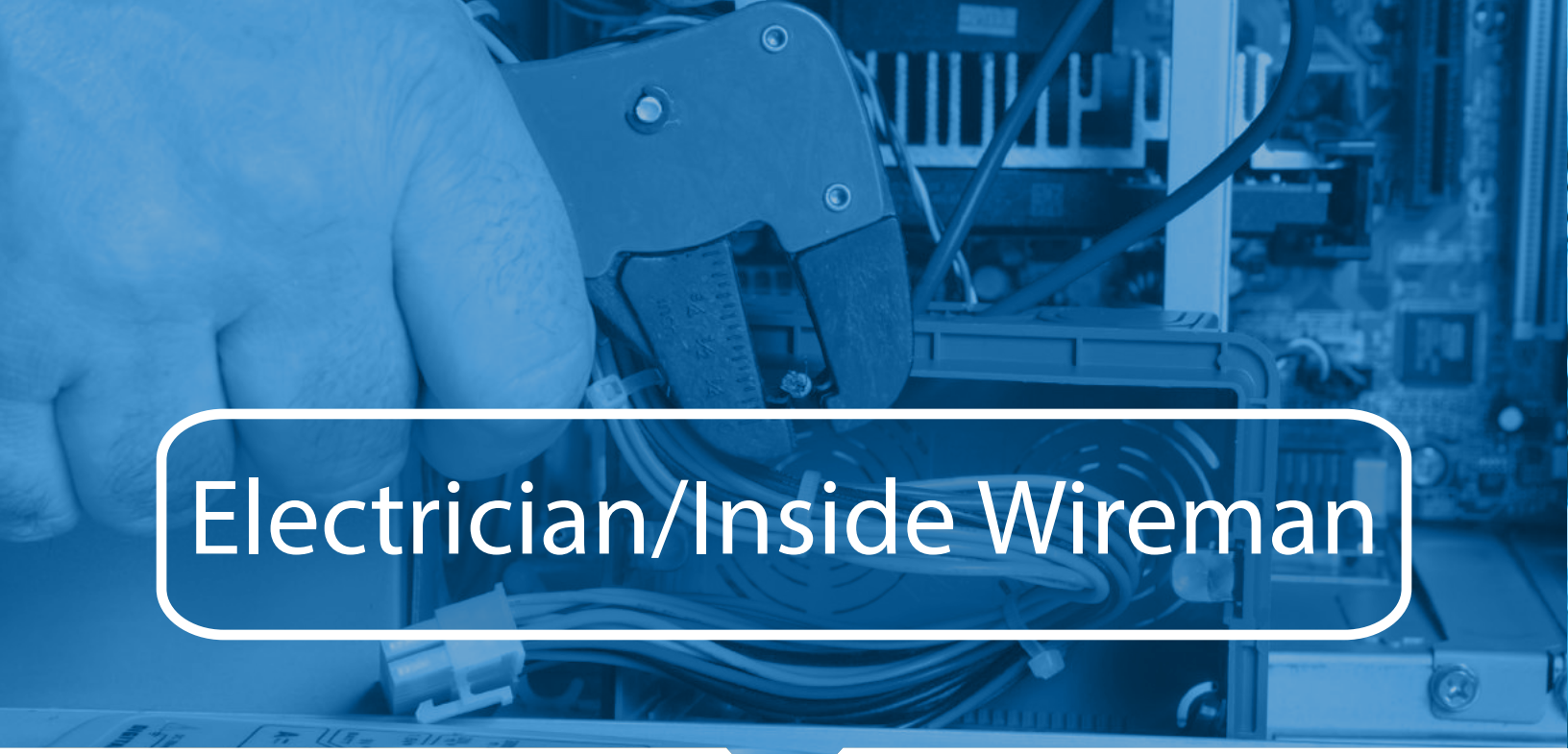
Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

College Admission Requirements
Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Electrician/Inside Wireman

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
26 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $33.19
YEARLY $69,040

JOB DESCRIPTION

Inside wiremen are electrical workers who install the power, lighting, controls and other electrical equipment in commercial and industrial buildings.

APPRENTICESHIP SCHOOL

Detroit Joint Apprenticeship and Training Committee

Electrical Industry Training Center
2277 East Eleven Mile Road, Suite 1
Warren, Michigan 48092

Contact
Training Director: (586) 751-6600
detroiteitc.org or ibewlocal58.org

Applicant Requirements
Applicants must have a high school diploma, including one year of high school algebra, and must be 18 or older.

ABC/SEMCA, an affiliate of Construction Education Trust

31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact
Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements
Applicants must be 18 years or older and provide proof of high school graduation or GED.

Electrician/Telecommunications Installer Technician

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
35 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $26.07
YEARLY $54,220

JOB DESCRIPTION

VDV installer technicians install circuits and equipment for telephones, computer networks, video distribution systems and other low voltage systems.

APPRENTICESHIP SCHOOL

Detroit Joint Apprenticeship and Training Committee
Electrical Industry Training Center
2277 East Eleven Mile Road, Suite 1
Warren, Michigan 48092

Contact

Training Director: (586) 751-6600
detroiteitc.org or ibewlocal58.org

Applicant Requirements

Applicants must be 18 or older, have a high school diploma and a minimum of one year of high school algebra. Applicants must also pass a drug test and take a qualifying examination.

Elevator Constructor/Installer

LENGTH
of Apprenticeship

6 MONTHS
probationary period

4 YEARS
classroom and
on-the-job training

MARKET FORECAST
for Metro Detroit Area

7 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area

HOURLY $39.51
YEARLY $82,190

JOB DESCRIPTION

Elevator constructors/installers install, repair and maintain commercial elevators, escalators, moving walks, dumbwaiters, shuttles, temporary elevators, private residence elevators, lifts and various handicap lifts and stair climbers.

APPRENTICESHIP SCHOOL

Elevator Constructors Local 36
1640 Porter Street
Detroit, Michigan 48216

Contact

Union Hall: (313) 961-0717

Applicant Requirements

Applicants must have a high school diploma or GED and be 18 or older. They must also pass a pre-physical evaluation and a drug test. A strong high school math background is helpful.

Facility Maintenance Mechanic

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
366 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $17.82
YEARLY $37,070

JOB DESCRIPTION

Facility maintenance mechanics perform duties that involve the skills of two or more maintenance or craft occupations as they keep machines, mechanical equipment or the structure of an establishment in repair. These duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning and balancing new equipment; and repairing buildings, floors or stairs.

APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Glazier and Glassworker

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
29 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $24.11
YEARLY $50,150

JOB DESCRIPTION

Glaziers install glass and aluminum (windows, skylights, entrances, store fronts, curtain walls, shower doors, mirrors, hand rails, etc.) in new construction, residential and remodeling.

APPRENTICESHIP SCHOOL

Glaziers Apprentice School
14587 Barber Street
Warren, Michigan 48088

Contact

Apprentice Coordinator: (586) 552-4483

Applicant Requirements

Applicants must have a high school diploma or GED, be a minimum 18 and a U.S. citizen. They must have good health and physical ability and must have a driver's license and reliable transportation.

Health Unit Coordinator

LENGTH
of Apprenticeship
2,000 HOURS

MARKET FORECAST
for Metro Detroit Area
155 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $15.77
YEARLY $32,810

JOB DESCRIPTION

Health unit coordinators are responsible for transcribing physicians' orders, maintaining patients' charts, requisitioning daily labs, scheduling diagnostic tests, communicating with all levels of staff and coordinating unit activity.

APPRENTICESHIP PROGRAM

Schoolcraft College
(Apprenticeship 2,000 hours)
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Heat and Frost Insulator Green Energy Movement

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
7 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.18
YEARLY $52,370

JOB DESCRIPTION

Heat and frost insulators apply insulation and wrap pipes and tanks for heat, frost and condensation in industrial settings (e.g., factories, power plants, etc.).

APPRENTICESHIP SCHOOL

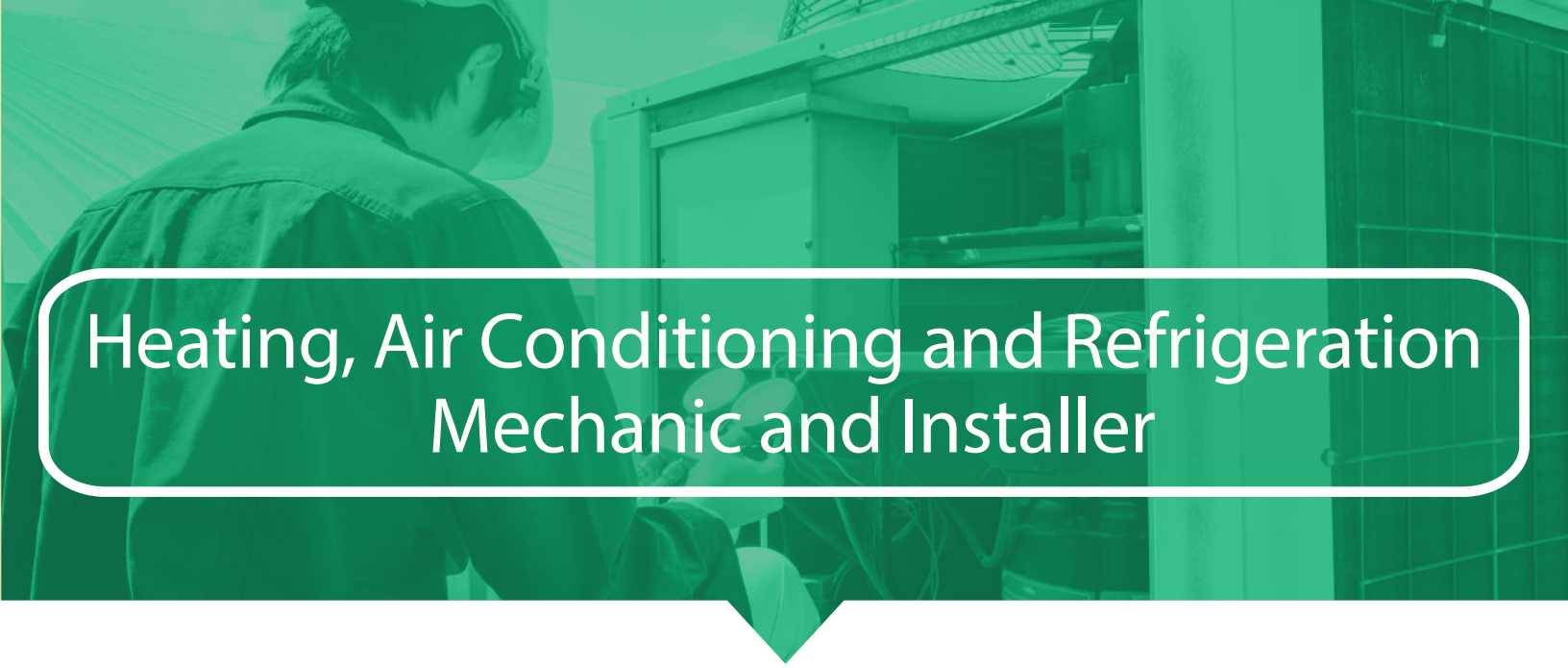
Heat & Frost Insulators, Local # 25 Joint Apprentice Training Center
21353 Bridge Street
Southfield, Michigan 48033

Contact

Apprentice Coordinator: (248) 352-1850
asbwrkrs25@aol.com

Applicant Requirements

Applicants must have a high school diploma or GED, be a minimum of 18, possess a valid driver's license and live in the geographic area (Wayne, Oakland, Macomb, St. Clair and eastern Washtenaw counties).



Heating, Air Conditioning and Refrigeration Mechanic and Installer

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
137 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $23.56
YEARLY $49,000

JOB DESCRIPTION

Heating, air conditioning and refrigeration mechanics and installers install or repair heating, central air conditioning or refrigeration systems, including oil burners, hot air furnaces and heating stoves.

APPRENTICESHIP SCHOOL

ABC/SEMCA, an affiliate of Construction Education Trust
31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact

Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements

Applicants must be 18 years or older and provide proof of high school graduation or GED.

COLLEGE APPRENTICESHIP PROGRAMS

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact

Apprentice Coordinator:
(586) 445-7519

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact

Apprentice Coordinator:
(810) 762-0224

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact

Apprentice Coordinator:
(248) 232-4050

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Industrial Manufacturing Technician

LENGTH
of Apprenticeship
2,736 HOURS

MARKET FORECAST
for Metro Detroit Area
118 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $28.36
YEARLY $58,990

JOB DESCRIPTION

Industrial manufacturing technicians apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. They may perform time and motion studies on worker operations in a variety of industries for such purposes as establishing standard production rates or improving efficiency.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Information Technology Project Manager

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
73 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $37.63
YEARLY $78,260

JOB DESCRIPTION

Information technology project managers plan, initiate and manage information technology (IT) projects. They lead and guide the work of technical staff and serve as a liaison between the business and technical aspects of projects. They also plan project stages; assess business implications for each stage; and monitor progress to assure that deadlines, standards and cost targets are met.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Iron Worker

LENGTH
of Apprenticeship
3-4 YEARS

MARKET FORECAST
for Metro Detroit Area
18 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.64
YEARLY $53,330

JOB DESCRIPTION

Iron and steel workers raise, place and unite iron or steel girders, columns or other structural members to form completed structures or structural frameworks in the commercial, industrial and residential sectors. Iron workers are employed in five segments of the trade: structural workers assemble, erect and install fabricated iron sections; reinforcing iron workers fabricate and place steel bars in concrete forms; ornamental workers install metal stairways, cat walks, gratings, curtain walls, doors, gates, railings, etc.; special building erectors erect pre-engineered buildings; and rigging/machinery movers load, unload, move and set machinery, equipment and material, using cranes, derricks or forklifts.

APPRENTICESHIP SCHOOL

Iron Workers Apprenticeship School
50490 West Pontiac Trail
Wixom, Michigan 48393

Contact

Kevin McDonell, Apprentice Coordinator:
(248) 960-2130
ironworkers25.org

Applicant Requirements

Applicants must have a high school diploma or GED and be 18 or older. They must also pass a physical exam and aptitude test and submit to drug testing.

COLLEGE APPRENTICESHIP PROGRAM

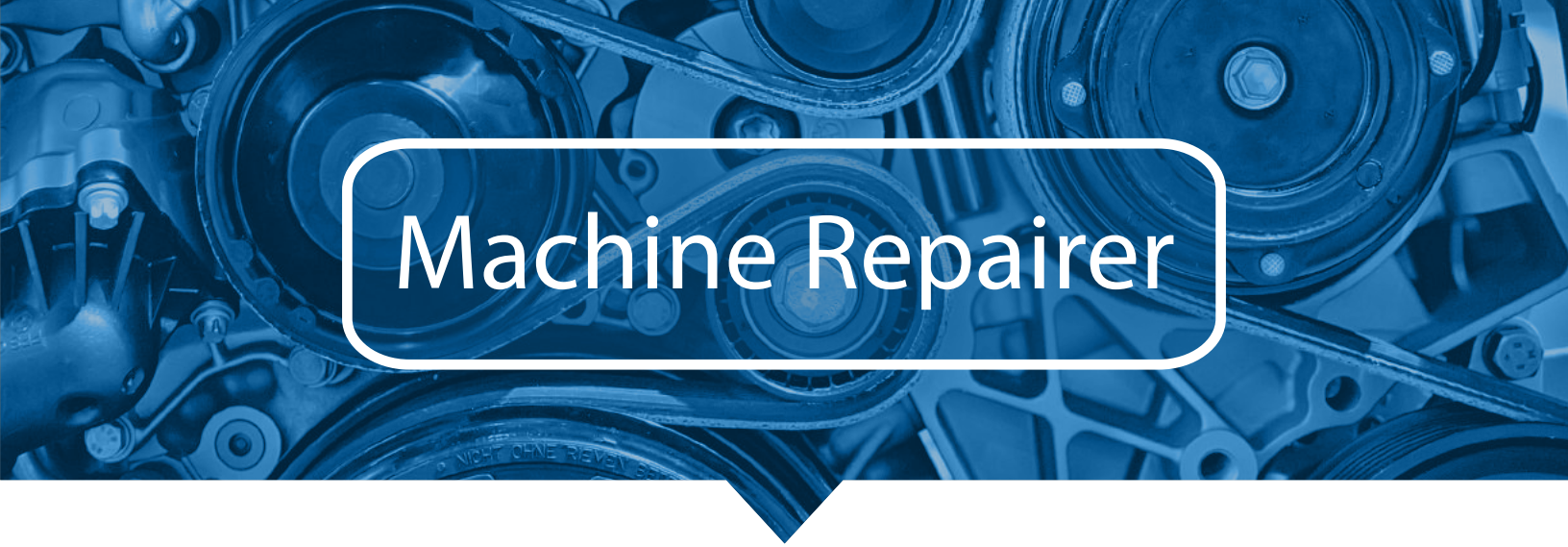
Schoolcraft College
(Apprenticeship length varies)
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Machine Repairer

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
259 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $26.08
YEARLY $54,250

JOB DESCRIPTION

Machine repairers repair, install, adjust or maintain industrial production and processing machinery or refinery and pipeline distribution systems. Workers observe and test the operation of machinery and equipment in order to diagnose malfunctions; analyze test results, machine error messages and information obtained from operators in order to diagnose equipment problems; and disassemble machinery and equipment to remove parts and make repairs. Machine repairers may also study blueprints and manufacturers' manuals to determine correct installation and operation of machinery.

APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College
1401 East Court Street
Flint, Michigan 48503

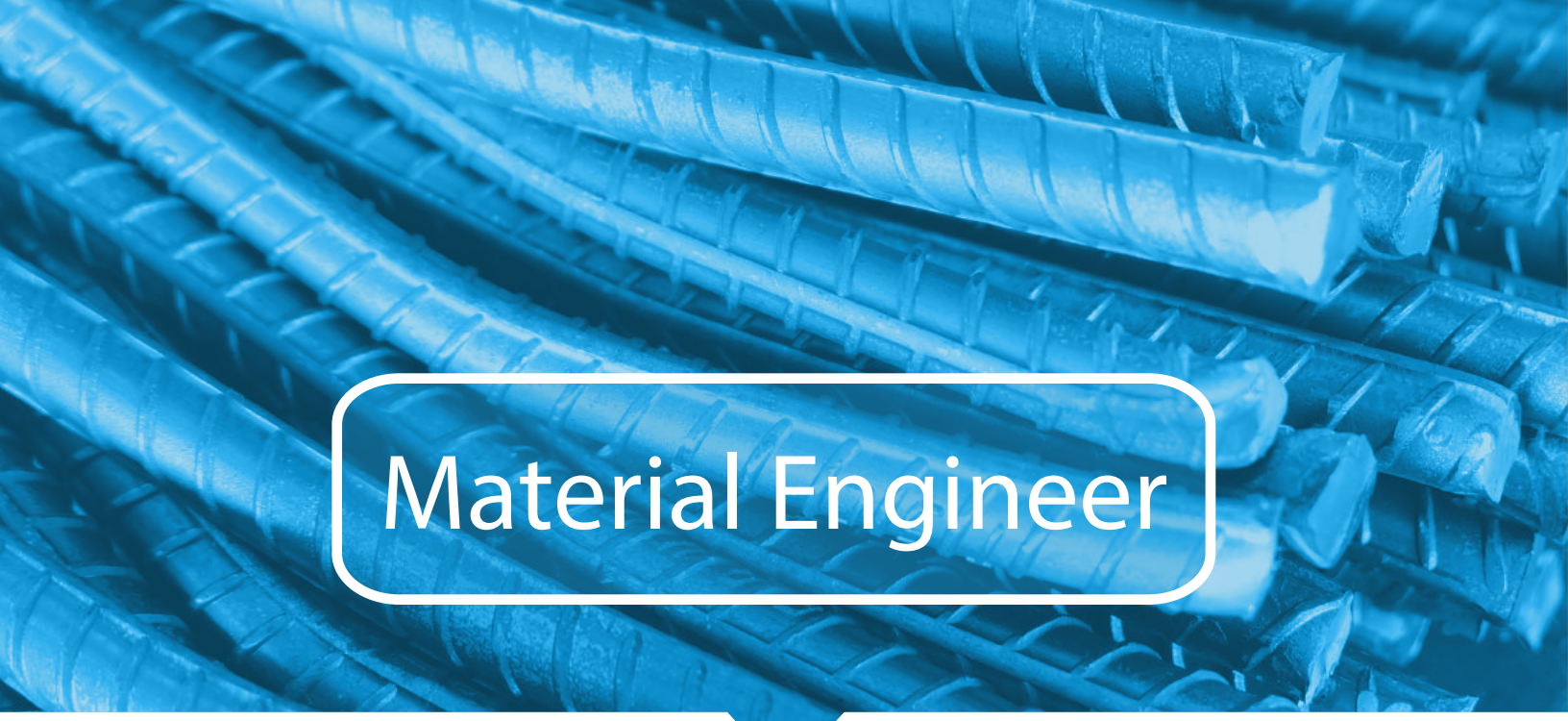
Contact
Apprentice Coordinator:
(810) 762-0224

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Material Engineer

LENGTH
of Apprenticeship
4,000 HOURS

MARKET FORECAST
for Metro Detroit Area
36 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $39.37
YEARLY $81,890

JOB DESCRIPTION

Material engineers evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. They develop new uses for known materials and include those engineers who work with composite materials or specialize in one type of material, (e.g., graphite, metal and metal alloys, ceramics and glass, plastics and polymers and naturally occurring materials). Material engineers Include metallurgists and metallurgical engineers, ceramic engineers and welding engineers.

APPRENTICESHIP PROGRAM

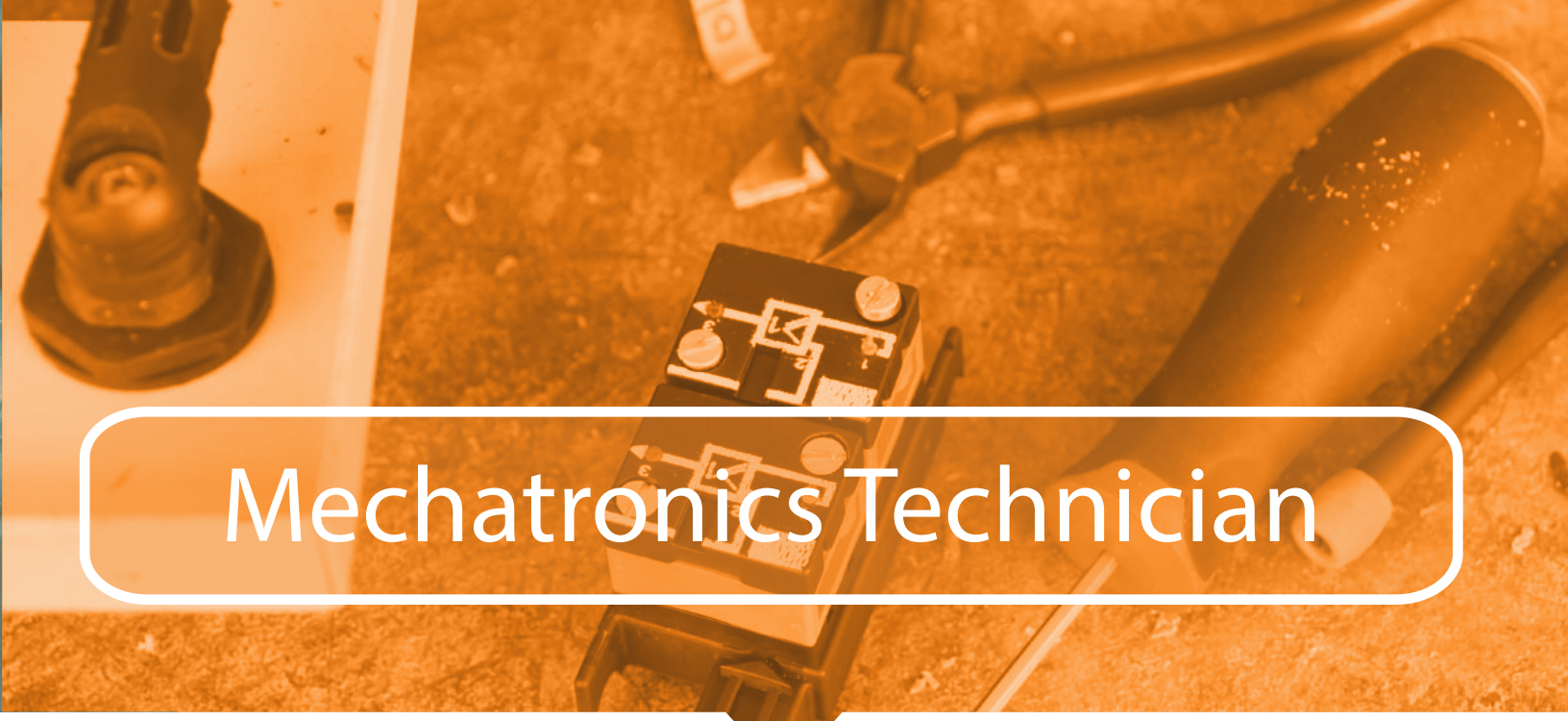
Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Mechatronics Technician

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
59 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $33.51
YEARLY $69,700

JOB DESCRIPTION

Mechatronics technicians combine electrical, mechanical and electronic competencies to identify, analyze and solve systems-based problems. A mechatronics technician is a skilled individual who combines these competencies to solve systematic problems. At the same time, he/she uses a holistic approach to provide basic solutions. A mechatronics technician must be able to support engineers, modify machines, make minor changes and repair, test and maintain related equipment.

APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-9609

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Schoolcraft College
(Apprenticeship 8,000 hours)
18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must be a high school graduate or a GED recipient and 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Medical Assistant

LENGTH
of Apprenticeship
4,000 HOURS

MARKET FORECAST
for Metro Detroit Area
392 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $14.17
YEARLY $29,470

JOB DESCRIPTION

Medical assistants perform administrative and specific clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing and coding for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood and administering medications as directed by a physician.

APPRENTICESHIP PROGRAM

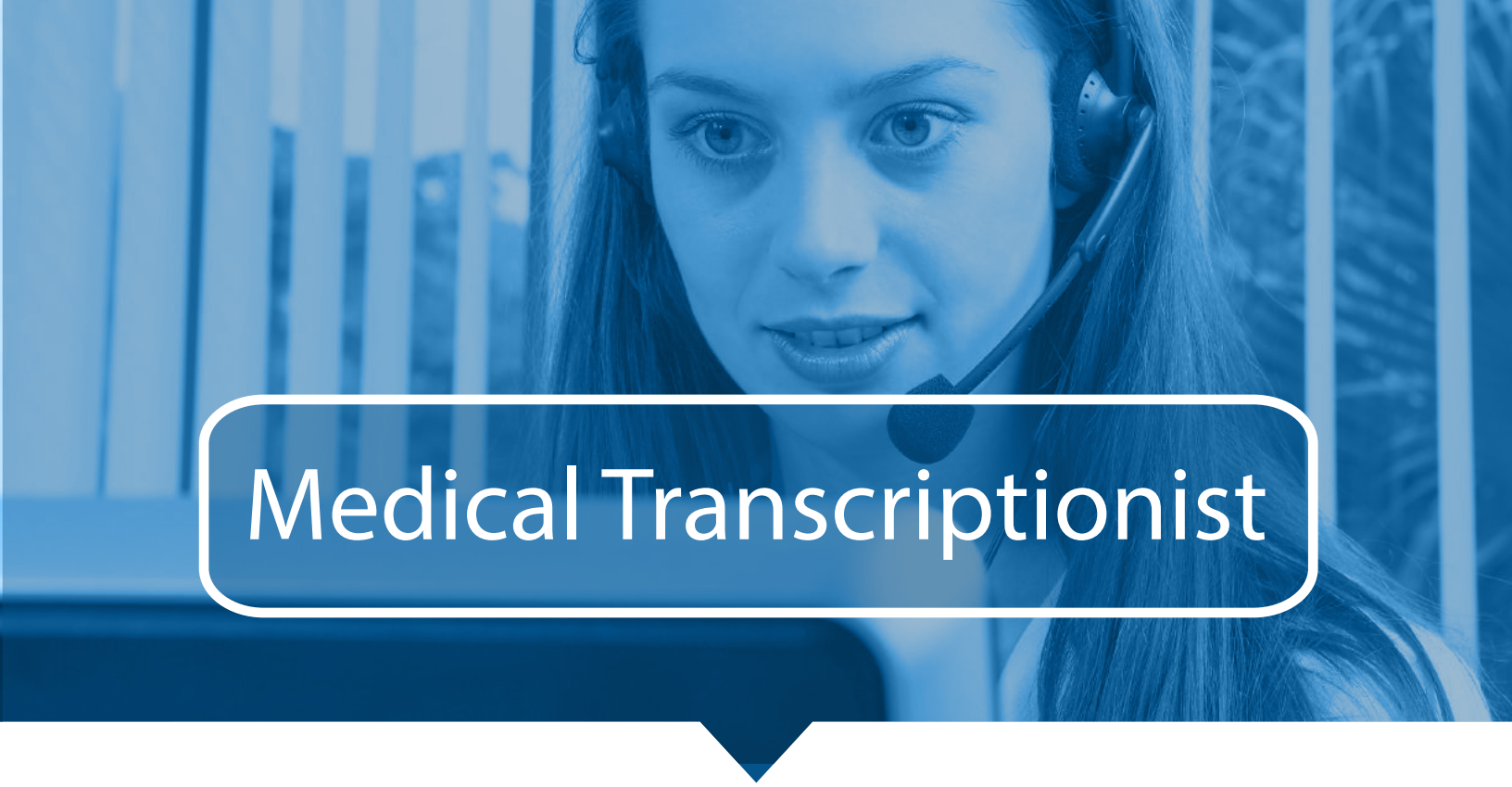
Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Medical Transcriptionist

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
55 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $17.17
YEARLY $35,720

JOB DESCRIPTION

Medical transcriptionists use transcribing machines with headsets and foot pedals to listen to recordings by physicians and other healthcare professionals who dictate a variety of medical reports, including emergency room visits, diagnostic imaging studies, operations, chart reviews and final summaries. These duties include transcribing dictated reports and translating medical jargon and abbreviations into their expanded forms. Duties also include editing, as necessary, and returning reports in either printed or electronic form to the dictator for review and signature or correction. Medical transcriptionists may work for hospitals, clinics or independent transcription companies transcribing dictated medical reports, which are critical for statistical reports, legal issues, proper billing and continuity of patient care.

APPRENTICESHIP PROGRAM

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact

Apprentice Coordinator: (248) 232-4050
Note: Program internship required.

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Metal Fabricator

LENGTH
of Apprenticeship
8,000 HOURS

MARKET FORECAST
for Metro Detroit Area
69 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $19.69
YEARLY $40,960

JOB DESCRIPTION

Metal fabricators fabricate, position, align and fit parts of structural metal products.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator: (734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Millwright

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
57 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $30.39
YEARLY $63,220

JOB DESCRIPTION

A millwright is a construction mechanic whose skills include moving, leveling, aligning, installing and repairing large machinery. Millwrights also rig, erect and splice belts; clean, lubricate and replace gears; and fabricate, install and repair conveyor systems, turbines and generators and automated systems.

APPRENTICESHIP SCHOOL

Millwrights 1102 Apprenticeship and Training
27555 Mound Road
Warren, Michigan 48902

Contact
Director: (586) 573-4660
millwrightstraining.com

Applicant Requirements
Applicants must have a high school diploma or GED and be 18 or older with U.S. citizenship. A driver's license and reliable transportation to travel throughout the southern half of Michigan are required. Applications must be picked up by the applicant during the first two weeks of February (Monday-Friday, 8:30-12:30).

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

College Admission Requirements
Applicants must be a high school graduate or a GED recipient and 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Mold and Model Maker

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
6 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.96
YEARLY $54,000

JOB DESCRIPTION

Mold and model makers set up and operate such machines as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. This also includes template makers.

APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-9609

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College
(Model Makers Only)
1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0317

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

Schoolcraft College
(Apprenticeship 8,000 hours)
18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school graduate or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Network and Computer Systems Administrator

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
150 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $37.81
YEARLY $78,640

JOB DESCRIPTION

Network and computer systems administrators install, configure and support an organization's local area network (LAN), wide area network (WAN) and Internet systems or a segment of a network system. They monitor networks to ensure network availability to all system users and may perform necessary maintenance to support network availability. They may monitor and test web site performance to ensure web sites operate correctly and without interruption and may also assist in network modeling, analysis, planning and coordination between network and data communications hardware and software. They may also supervise computer user support specialists and computer network support specialists and administer network security measures.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school graduate or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Network Support Technician

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
77 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $31.21
YEARLY $64,920

JOB DESCRIPTION

Network support technicians analyze, test, troubleshoot and evaluate existing network systems including local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. They perform network maintenance to ensure networks operate correctly with minimal interruption.

APPRENTICESHIP PROGRAMS

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Office Manager/Administrative Assistant

LENGTH
of Apprenticeship
4,000 HOURS

MARKET FORECAST
for Metro Detroit Area
50 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $40.10
YEARLY $83,410

JOB DESCRIPTION

Office manager/administrative assistants plan, direct or coordinate one or more administrative services of an organization, including records and information management, mail distribution, facilities planning and maintenance, custodial operations and other office support services.

APPRENTICESHIP PROGRAM

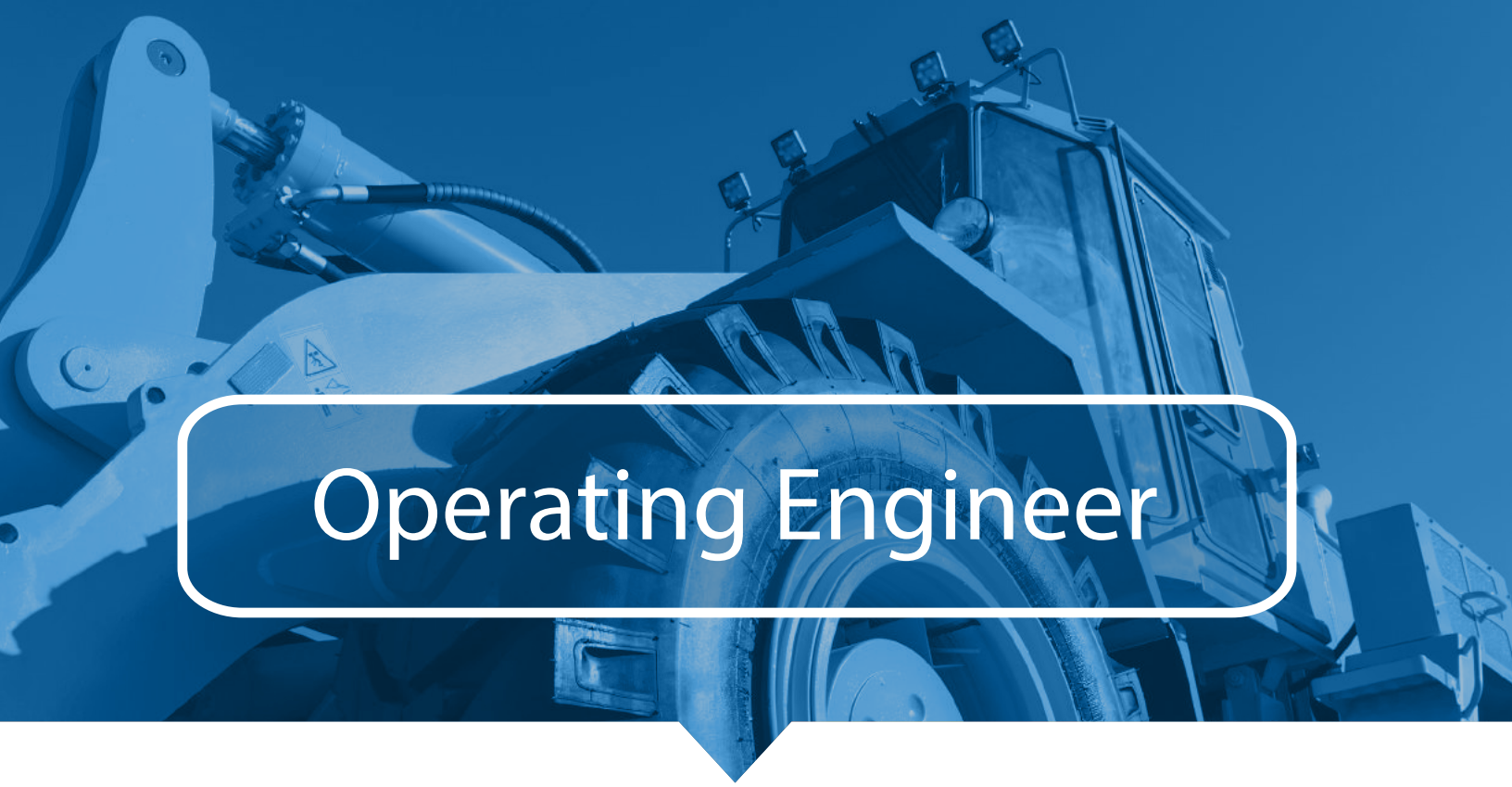
Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Operating Engineer

LENGTH
of Apprenticeship
6,000 HOURS

MARKET FORECAST
for Metro Detroit Area
88 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $24.64
YEARLY $51,250

JOB DESCRIPTION

Operating engineers operate and maintain heavy and portable construction equipment including bulldozers, excavators, scrapers, graders, loaders and cranes. They use this equipment as they dig, haul and level operations to build roads; excavate materials for basements and footings; excavate sewer, pipelines and utility trenches; unload heavy material on building projects; and maintain machinery.

APPRENTICESHIP SCHOOL

Operating Engineers Joint Apprenticeship Training Fund, Inc.
275 East Highland Road
Howell, Michigan 48843

Contact

John Hartwell, Apprentice Coordinator
(517) 546-9610
oe324.org

Applicant Requirements

Apprentice applicants must have a high school diploma or GED and be 18 or older at the time of application. Michigan residency is required. Applicants must have reliable transportation and possess a Michigan driver's license. They also must pass a physical examination, meet drug screening requirements and take a written aptitude test.

Painter

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
54 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $20.47
YEARLY $42,580

JOB DESCRIPTION

Painters prepare the surfaces of buildings and other structures and then apply paint, varnish, enamel, lacquer and similar materials to these surfaces. A painter is adept at handling brushes and other painting tools in order to apply paint thoroughly, uniformly and rapidly to any type of surface.

APPRENTICESHIP SCHOOL

Finishing Trades Institute of the Great Lakes
14587 Barber Street
Warren, Michigan 48088

Contact

(586) 552-4474

Admission Requirements

Applicants must have a high school diploma or GED, be 18 or older, be a U.S. citizen, possess a driver's license, have reliable transportation, and be in good health (especially respiratory).

Paramedic

LENGTH
of Apprenticeship
4,000 HOURS

MARKET FORECAST
for Metro Detroit Area
123 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $14.94
YEARLY $31,070

JOB DESCRIPTION

Paramedics assess injuries, administer emergency medical care and extricate trapped individuals. They also transport injured or sick persons to medical facilities.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Pharmacy Assistant/Technician

LENGTH
of Apprenticeship
VARIES

MARKET FORECAST
for Metro Detroit Area
105 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $14.59
YEARLY $30,340

JOB DESCRIPTION

Pharmacy assistants prepare medications under the direction of a pharmacist. These technicians may mix, count out, label and record amounts and dosages of medications.

APPRENTICESHIP PROGRAM

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

Admission Requirements

Applicants must have a high school diploma or GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Physical Therapy Assistant

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
55 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $22.81
YEARLY $47,450

JOB DESCRIPTION

Physical therapy assistants assist physical therapists in providing physical therapy treatments and procedures. They may, in accordance with State laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment and modify specific treatments in accordance with patient status and within the scope of treatment plans that a physical therapist establishes.

APPRENTICESHIP PROGRAM

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact

Health Science Department:
(810) 762-0317

Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this program, which may require additional qualifications that the Apprentice Coordinator can identify.

Pipefitter

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
12 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $29.95
YEARLY $62,300

JOB DESCRIPTION

Pipefitters install both high and low pressure pipes that carry hot water, steam and other liquids and gases, especially those in industrial and commercial buildings.

APPRENTICESHIP SCHOOL

Pipefitting Industry Training Center
636 Executive Drive
Troy, Michigan 48084

Contact

Director of Training: (248) 585-0636
pipefitters636tc.org

Applicant Requirements

Applicants must possess a high school diploma or GED, and they must be at least 18 and have a valid Michigan driver's license. The following academic courses are preferred: high school math, science, architectural drawing, welding, auto mechanics and machine shop.

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact

Apprentice Coordinator:
(313) 845-9609

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact

Apprentice Coordinator:
(810) 762-0317

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact

Apprentice Coordinator:
(248) 232-4050

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact

Apprentice Coordinator:
(586) 445-7519

Schoolcraft College
(Apprenticeship length varies)
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

College Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Plasterer

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
NO LABOR MARKET INFORMATION IS AVAILABLE

WAGES
for Metro Detroit Area
HOURLY $27.75
YEARLY $57,730

JOB DESCRIPTION

Plasterers finish interior walls and ceilings by using a one, two, or three-coat system over interior lathes. They install insulated finish systems, apply stucco to exterior walls and ceilings and soundproof and fireproof buildings. Plasterers also create specialized molds and often play a major role in renovating historic buildings.

APPRENTICESHIP SCHOOL

OPCMIA Local 514 – Business Office
Operative Plasterers and Cement Masons International Association
1154 East Lincoln Avenue
Madison Heights, Michigan 48071

Contact

Business Manager: (248) 591-6700
2630 Grand Traverse Road
Flint, Michigan 48503

Applicant Requirements

Applicants must have a high school diploma or a GED, and they must be 18 or older.

Plumber

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
268 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $31.63
YEARLY $65,800

JOB DESCRIPTION

Plumbers alter, repair, maintain and install plumbing systems, plumbing fixtures and appliances, and water distribution and waste disposal systems. Plumbers also install the medical gas systems in health care facilities.

APPRENTICESHIP SCHOOL

Plumbing Industry Training Center
1911 Ring Drive
Troy, Michigan 48083

Contact

Director of Training: (248) 585-1435
ualocal98.org

Applicant Requirements

Applicants must possess a high school diploma or GED, and they must be at least 18. The following academic courses are preferred: high school math, science, architectural drawing, welding, mechanics and machine shop.

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact

Apprentice Coordinator:
(313) 845-9609

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact

Apprentice Coordinator:
(810) 762-0317

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact

Apprentice Coordinator:
(586) 445-7519

Schoolcraft College
(Apprenticeship length varies)
18600 Haggerty Road
Livonia, Michigan 48152

Contact

Apprentice Coordinator:
(734) 462-4400

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Roofer and Waterproofer

LENGTH
of Apprenticeship
3 YEARS

MARKET FORECAST
for Metro Detroit Area
32 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $24.89
YEARLY $51,760

JOB DESCRIPTION

Roofers install a wide variety of roofing materials including hot tar, hot asphalt, modified bitumen or rubber membrane on all types of commercial buildings. These buildings include small stores to huge automotive plants and range in height from one story to skyscrapers.

APPRENTICESHIP SCHOOL

Roofer's Local 149/SMRCA Apprenticeship School

10621 Capital
Oak Park, Michigan 48237

Contact
Brian Gregg, Coordinator: (248) 543-3847
rooferslocal149mi.com

Applicant Requirements
Applicants must be at least 18 and have a dependable vehicle.

ABC/SEMCA, an affiliate of Construction Education Trust

31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact
Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements
Applicants must be 18 years or older and provide proof of high school graduation or GED.

Sheet Metal Worker and HVAC

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
65 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $24.48
YEARLY $50,930

JOB DESCRIPTION

Sheet metal workers fabricate and install ducts that are used in ventilating, air conditioning and heating systems. They also fabricate and install other products made from metal sheets, including roofing and siding, metal decks, gutters, flashings and dust-collecting systems.

APPRENTICESHIP SCHOOLS

Sheet Metal Workers Local 292 Training Center
64 Park Street Suite 200
Troy, Michigan 48083

Contact
Coordinator: (248) 589-2402
sheetmetal292.com

Sheet Metal Workers Local 80 JAC
32700 Dequindre
Warren, Michigan 48092

Contact
Training Director: (586) 979-5190
smw80jac.org

ABC/SEMCA, an affiliate of Construction Education Trust
31800 Sherman Avenue
Madison Heights, Michigan 48071

Contact
Diane Baldwin, Director of Education: (248) 298-3603
dbaldwin@abcsemi.org

Contact ABC about program choices at our satellite sites in Lapeer, Adrian, Monroe, Ann Arbor and Gibraltar

Applicant Requirements*
Applicants must be 18 years or older and provide proof of high school graduation or GED.

**For Local 292 Training and Local 80 JAC training, applicants must also take and pass an entrance exam and have a valid driver's license. Information regarding entrance exams can be found by visiting smw80jac.org and clicking on entrance exam or smwl292jatc.org/apprentice.html*

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

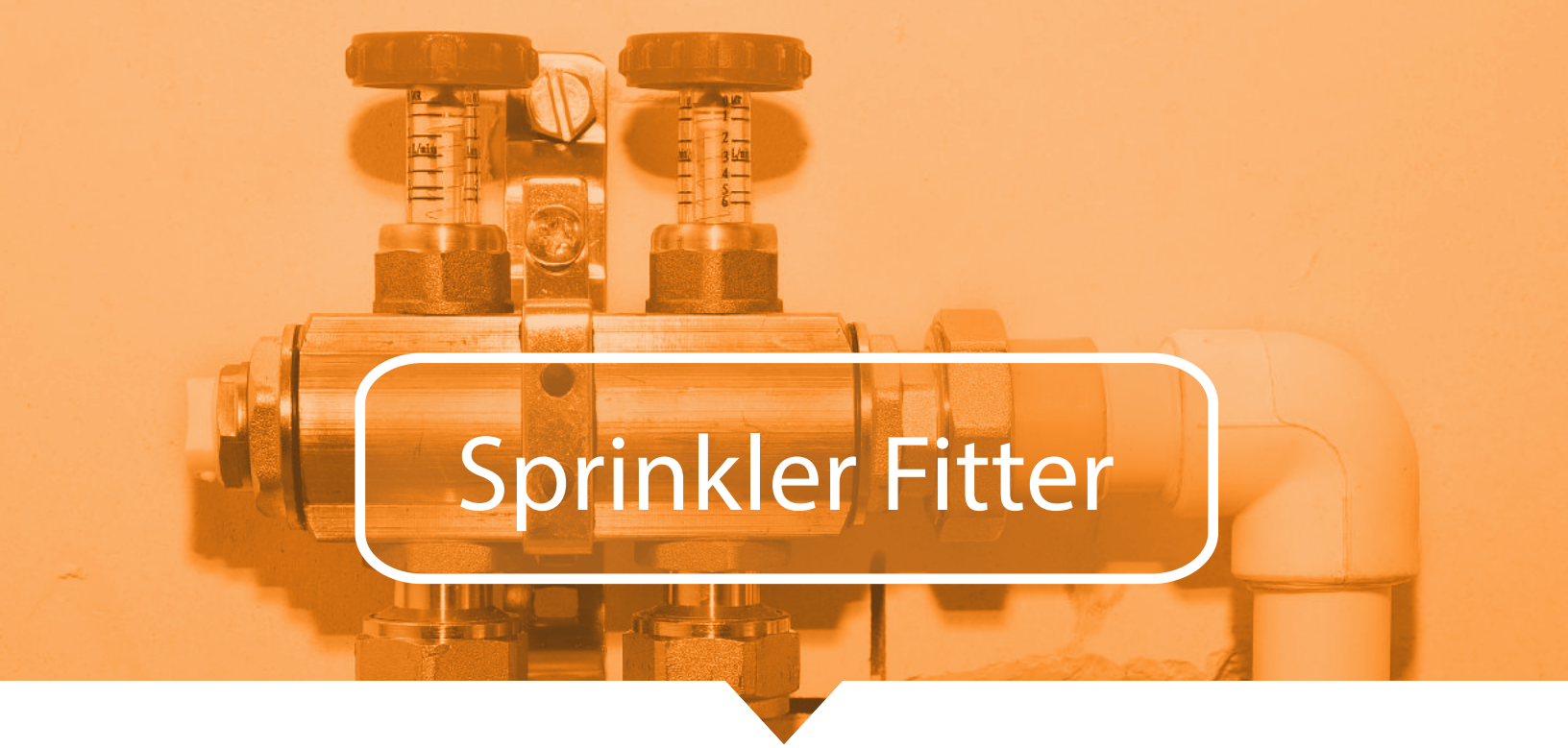
Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Schoolcraft College
(Apprenticeship length varies)
18600 Haggerty Road
Livonia, Michigan 48152

Contact
Apprentice Coordinator: (734) 462-4400

Admission Requirements
Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Sprinkler Fitter

LENGTH
of Apprenticeship
5 YEARS

MARKET FORECAST
for Metro Detroit Area
10 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $21.58
YEARLY $44,880

JOB DESCRIPTION

Sprinkler fitters unload, handle and install piping, tubing and related materials in commercial and residential buildings. They also install overhead and underground water mains, fire hydrants and hydrant mains, standpipes and hose connections, sprinkler tank heaters, air lines and thermal systems that are connected to sprinkler and alarm systems. Sprinkler fitters work in narrow spaces, on ladders and high scaffolding.

APPRENTICESHIP SCHOOL

Sprinkler Fitters Apprenticeship School
32500 West Eight Mile Road
Farmington, Michigan 48336

Contact

Kevin Hill, Training Director: (248) 473-8259 or (248) 474-7553

Applicant Requirements

Applicants must have a high school diploma or a GED and be 18 or older. Math skills are stressed and applicants must be able to manage heavy equipment and lift loads in excess of 100 pounds.

COLLEGE APPRENTICESHIP PROGRAM

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact

Apprentice Coordinator: (313) 845-6348

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Tile, Marble and Terrazzo Mason

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
10 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $23.79
YEARLY $49,480

JOB DESCRIPTION

Tile layers construct walls, partitions, fireplaces, swimming pools and other structures from tile, marble and terrazzo. They use such other materials as cement, epoxy, tile, stone, marble, terrazzo and terra cotta.

APPRENTICESHIP SCHOOL

Bricklayers & Allied Craftworkers, Local #2
21031 Ryan Road
Warren, Michigan 48091

Contact

Tom Ward, Apprentice Coordinator:
(586) 757-6668
tom.ward@bricklayers.org
bricklayers.org *(Click on Metro Detroit Apprenticeship tab)*

Applicant Requirements

Applicants must have a high school diploma or GED, be 17 or older, and have a valid driver's license. Residency in Michigan is required. Twelve weeks of pre-apprentice training is also required.

Tool and Die Maker

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
93 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $25.96
YEARLY $53,990

JOB DESCRIPTION

Tool and die makers set up and operate a variety of computer-controlled and mechanically-controlled machine tools to produce precision metal parts, instruments and tools.

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-6348

Mott Community College
1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0317

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Undercar Specialist

LENGTH
of Apprenticeship
2 YEARS

MARKET FORECAST
for Metro Detroit Area
351 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $20.18
YEARLY $41,980

JOB DESCRIPTION

Undercar specialists are automotive specialty technicians who repair only one system or component of a vehicle. They examine vehicles, compile estimates of repair costs and secure customers' approval to perform repairs.

COLLEGE APPRENTICESHIP PROGRAMS

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College

1401 East Court Street
Flint, Michigan 48503

Contact
Apprentice Coordinator:
(810) 762-0224

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.

Welder

LENGTH
of Apprenticeship
4 YEARS

MARKET FORECAST
for Metro Detroit Area
141 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area
HOURLY $19.95
YEARLY $41,490

JOB DESCRIPTION

Welders use hand-welding or flame-cutting equipment to weld or join metal components, or to fill holes, indentations or seams of fabricated and metal products.

COLLEGE APPRENTICESHIP PROGRAMS

Henry Ford College
5101 Evergreen
Dearborn, Michigan 48128

Contact
Apprentice Coordinator:
(313) 845-9609

Schoolcraft College
18600 Haggerty Road
Livonia, Michigan 48152

Welder Apprenticeship:
5,920 hours

Arc Welder Apprenticeship:
8,000 hours

Combination Welder:
6,000 hours

Contact
Apprentice Coordinator:
(734) 462-4400

Macomb Community College
14500 East Twelve Mile Road
Warren, Michigan 48093

Contact
Apprentice Coordinator:
(586) 445-7519

Mott Community College
1401 East Court Street
Flint, Michigan 48503

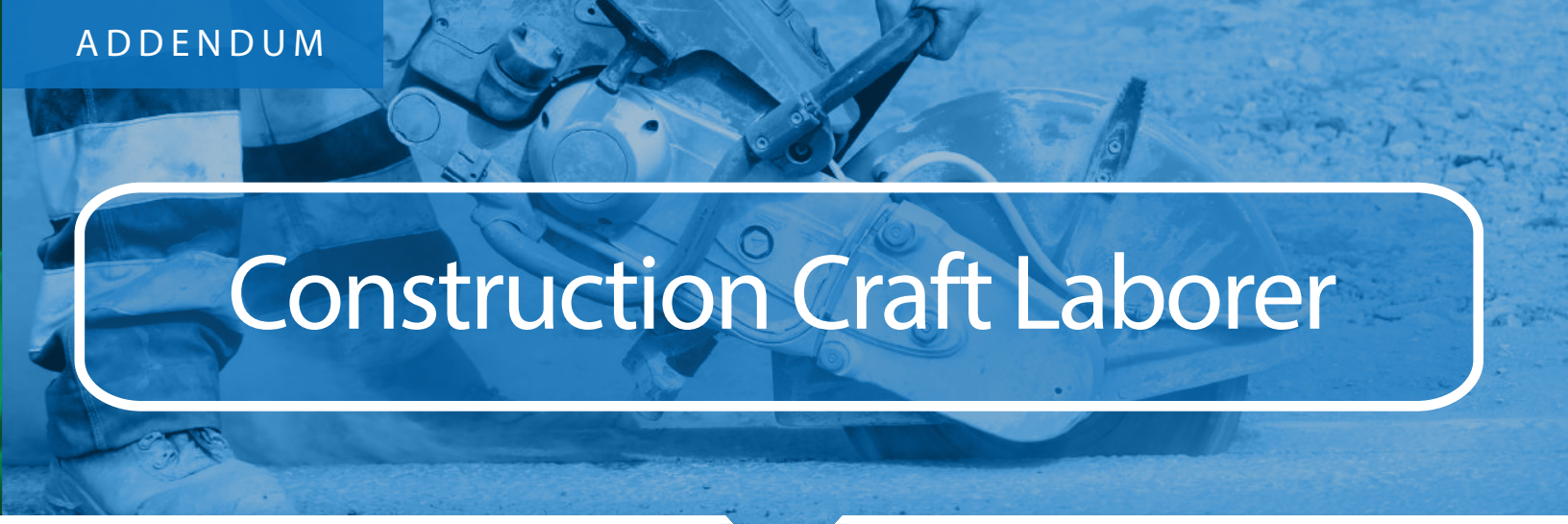
Contact
Apprenticeship Coordinator:
(810) 762-0317

Oakland Community College
2900 Featherstone Road
Auburn Hills, Michigan 48326

Contact
Apprentice Coordinator:
(248) 232-4050

College Admission Requirements

Applicants must have a high school diploma or a GED and be 18 or older. College admission does not guarantee enrollment in this apprenticeship program, which may require additional qualifications that the Apprentice Coordinator can identify.



Construction Craft Laborer

LENGTH
of Apprenticeship

4,000 HOURS OJT AND 400 HOURS CLASSROOM

MARKET FORECAST
for Metro Detroit Area

381 ANNUAL JOB OPENINGS

WAGES
for Metro Detroit Area

HOURLY $19.02
YEARLY $39,560

JOB DESCRIPTION

Construction craft laborers assist in concrete placement projects, including highway, bridge, commercial and industrial buildings, as well as light commercial construction. They assist with flatwork, curb and gutter, concrete wall and foundation construction. They also tend masons laying block and brick with tasks such as stocking block, mixing mortar, erecting scaffolding and grouting masonry walls. They place water main, storm and sanitary sewer pipes serving homes and businesses. A CCL (pipe-layer) will place the pipe to elevation and alignment while being assisted by a CCL (tail man) that will backfill and compact soil around the pipe. CCLs will also perform (top man) duties above ground, such as hooking up the pipe for an operating engineer and cleaning and lubing the pipe where required. In addition, they conduct asbestos abatement (removal) in accordance with EPA guidelines. CCLs are a key part of any transmission pipeline carrying crude, natural gas or hazardous materials across the state. They prepare the steel pipe surface for protective coating and then apply it as appropriate.

APPRENTICESHIP SCHOOL

Michigan Laborers' Training and Apprenticeship Institute

Perry Facility
11155 Beardslee Road
Perry, Michigan 48872

Wayne Facility
5555 Cogswell Road
Wayne, Michigan 48184

Iron Mountain Facility
W-8008 South US 2
Iron Mountain, Michigan 49801

Contact
Apprenticeship Coordinator:
(517) 625-4919

Applicant Requirements

CCL applicants must be 18 years of age, have a valid driver's license and reliable transportation. A high school diploma or GED are not required; however, we strongly encourage apprentices to have one or the other. Applicants must be able to pass a drug test for employment.

SECTION VI

The School-to-Registered Apprenticeship Program

High school students who are at least 16 can enroll in a School-to-Registered Apprenticeship (STRA) program. These students work for an employer during the summer between their junior and senior years. During their senior year, students work part time for the employer. This part-time work arrangement is similar to a co-op program, which can become a STRA. After graduating, the apprentice becomes a full-time employee and continues his/her education at a community college or an apprenticeship school.

School-to-Registered Apprenticeships are available in numerous occupations, including auto technicians, auto body repairers and electricians. If you or someone you know would like more details, please contact one or more of the following STRA education institutions at the following addresses and telephone numbers:

OAKLAND COUNTY

Oakland Schools
2111 Pontiac Lake Road
Waterford, Michigan 48328
(248) 209-2590

ST. CLAIR COUNTY

St. Clair County Regional Educational Service Agency
499 Range Road
P.O. Box 1500
Marysville, Michigan 48040
(810) 455-1010

WAYNE COUNTY

William D. Ford Career-Technical Center
36455 Marquette Avenue
Westland, Michigan
(734) 419-2116

SECTION VII

Glossary of Key Terms

Apprenticeship: A combination of on-the-job training and related classroom instruction through which workers learn the practical and theoretical aspects of a highly skilled occupation.

Office of Apprenticeship (OA): An office of the U.S. Department of Labor that approves occupations for apprenticeships and awards successful apprenticeship completers a Certificate of Completion.

Detroit Metro Prosperity Region: The number of job openings for specific occupations are compiled for the Detroit Metro Prosperity Region, which consists of Macomb, Oakland and Wayne counties.

Detroit Metropolitan Statistical Area (MSA): MSAs are designated and defined by the U.S. Department of Commerce, so that local economic and social statistics can be presented on a common geographic basis. The Detroit MSA consists of the following counties: Wayne, Oakland, Macomb, Livingston, Lapeer and St. Clair.

Joint Apprenticeship Committee (JAC): A JAC represents a partnership between a labor organization and an employer or an employer group. Individuals apply for an apprenticeship through the JAC for a given occupation.

Michigan Apprenticeship Steering Committee, Incorporated (MASCI): MASCI advises the Office of Apprenticeship's Michigan Office and provides a forum through which the apprenticeship community can express, discuss and promote ideas for the improvement and maintenance of Michigan's apprenticeship system.

Michigan Works! Agencies (MWAs): MWAs are geographic areas the governor has designated throughout Michigan to administer and operate workforce development programs. The following MWAs or parts of MWAs have been designated in the Detroit MSA: the Southeast Michigan Community Alliance (SEMCA), which includes Wayne County (excluding Detroit) and Monroe County; the Detroit Employment Solutions Corporation; the Oakland County Michigan Works! Agency; the Macomb/St. Clair Workforce Development Board; the Genesee Shiawassee Thumb (GST) Michigan Works! Agency, and Michigan Works! SouthEast.

Michigan Works! Service Centers: Service centers are one-stop offices that are located throughout the state, that offer job seekers and employers numerous workforce development programs and services. In Oakland County, Michigan Works! Service Centers are located in Ferndale, Highland, Novi, Oak Park, Pontiac, Southfield, Troy and Waterford.

Oakland County Workforce Development Division: The Division administers workforce development programs for the Oakland County Michigan Works! Agency, under the joint purview of the Oakland County Workforce Development Board and the Oakland County Executive.

School-to-Registered Apprenticeship Program (STRA): High school students who are at least 16 can enroll in a School-to-Registered Apprenticeship Program that begins when they are in school and continues after their graduation.

Talent Investment Agency (TIA): Among its other responsibilities, the TIA administers workforce development programs for the state of Michigan.

U.S. Department of Labor (USDOL): Among its other responsibilities, the USDOL administers workforce development programs. The Office of Apprenticeship is a part of the USDOL.

SECTION VII

Acknowledgements

Oakland County Executive L. Brooks Patterson acknowledges and thanks the following individuals and entities for their contributions to this Apprenticeship Booklet:

The U.S. Department of Labor's Office of Apprenticeship
Russell Davis, *State Director*

Talent and Economic Development Department – State of Michigan
Roger Curtis, *Director*

The Michigan Department of Technology, Management, and Budget's Bureau of Labor Market Information and Strategic Initiatives
Jason Palmer, *Director*
Leo Murembya, *Regional Research Coordinator*

The Michigan Talent Investment Agency
Wanda Stokes, *Director*

The Michigan Workforce Development Agency
Stephanie Beckhorn, *Director*

The Michigan Economic Development Corporation

Management and Unions Serving Together (MUST)

The Oakland County Workforce Development Board

Oakland County
Matthew Gibb, *Deputy Oakland County Executive*
Irene Spanos, *Director, Department of Economic Development & Community Affairs*
Dan Hunter, *Deputy Director, Department of Economic Development & Community Affairs*
Keith Lerminaux, *Oakland County Corporation Counsel*
Joellen Shortley, *Oakland County Corporation Counsel*

The Workforce and Education Committee of the Oakland County Business Roundtable

Oakland Community College
Dr. Timothy R. Meyer, *Chancellor*
Janene Erne, *Director of Technical Programs and Apprenticeships*

Oakland Schools
Dr. Wanda Cook-Robinson, *Superintendent*
Mary Kaye Aukee, *Executive Director, Student Services*

Oakland County Michigan Works! Oak Park
Mona DeFrancesco, *Director*
Onetta Greer

Oakland County Michigan Works! Southfield
Jeffrey Granat

Oakland County Michigan Works! Waterford
Tina Bulak

Funded by:
The Michigan Talent Investment Agency, Oakland County Executive L. Brooks Patterson, and the Oakland County Workforce Development Board

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Auxiliary aids and services are available upon request to individuals with disabilities.

Michigan Relay Center (TTY) - 1-800-649-3777 or 711

Oakland County is an Equal Employment Opportunity Employer/Program. A proud partner of the American Job Center network.

Employers, employer and labor organizations, joint apprenticeship committees, community colleges, technical centers and other interested parties who want their apprenticeship programs or schools included in the next edition of this Apprenticeship Booklet should contact the Oakland County Workforce Development Division at the following address or telephone number:

2100 Pontiac Lake Road, Dept. #437
Waterford, Michigan 48328
Telephone: (248) 858-5520
llewellynj@oakgov.com

Produced with the support of the Oakland County Board of Commissioners

Sources:
Department of Labor, Employment and Training Administration (2016)
Michigan Bureau of Labor Market Information and Strategic Initiatives (2016)

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