



# APPRENTICESHIPS IN OAKLAND COUNTY AND SOUTHEASTERN MICHIGAN



*2009 EDITION*



On behalf of our region's employers, labor organizations, and educators, I invite and encourage you to read this 2009 edition of our Apprenticeship Booklet, which will acquaint you with apprenticeships in Oakland County and elsewhere. These apprenticeships can prepare you for good paying jobs that provide excellent benefits.

More than 6,000 copies of the booklet's first and second editions were distributed to job seekers, students, parents, K-12 school districts, high school guidance counselors, community colleges, Michigan Works! Service Centers, and other organizations. The Oakland Press wrote that it contained "an eye opening 30 pages of information", and the National Association of Counties (NACo) awarded the booklet a prestigious achievement award.

The booklet's information is relevant, because Oakland County's economy is increasingly knowledge-based. High paying, low skill jobs are being replaced with career opportunities that require technical skills and a good education. Indeed, the University of Michigan's "Economic Outlook for Oakland County" predicts that jobs in industries with above-average educational requirements will grow about twice as fast as jobs in industries that require less education.

Not all of these and other high-skill jobs require a four (or even a two) year college degree. As an apprentice, for example, you can qualify for jobs in the skilled trades, culinary arts, health care, or social service sectors. You will work (and earn wages) while you receive on-the-job training and attend classes at a community college or an apprenticeship school".

According to the U.S. Department of Labor's Office of Apprenticeship (OA), those who complete apprenticeships in Michigan earn an average hourly wage of approximately \$23 and receive a certificate of completion that is recognized throughout the United States. Moreover, a union-sponsored apprenticeship will award a candidate who completes the program a journeyperson's card, and college credits the apprentice earns can be applied to an associate's degree.

Like its first two editions, this booklet asks and answers several key questions and provides information about occupations for which apprenticeships are developed. This new and enhanced edition updates information and highlights additional occupations (for a total of fifty-four), including those in the health care, advanced manufacturing, service, and construction industries.

I hope you will find this new and enhanced edition of our Apprenticeship Booklet useful as you explore the lucrative careers that are available through the apprenticeship system.



L. Brooks Patterson  
Oakland County Executive

A handwritten signature in black ink, appearing to read "L. Brooks Patterson". The signature is fluid and cursive.



APPRENTICESHIPS IN OAKLAND COUNTY  
AND SOUTHEASTERN MICHIGAN

2009 EDITION

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## SECTION II

# QUESTIONS AND ANSWERS ABOUT APPRENTICESHIPS

1. What is an apprenticeship? An apprenticeship is 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. Apprenticeship programs can be sponsored by individual employers, joint employer and labor groups, and/or employer associations.
2. What occupations offer apprenticeships? More than 860 occupations are approved for apprenticeships through the U.S. Department of Labor's Office of Apprenticeship. Many apprenticeships are in the construction and production fields (e.g., carpenter, electrician, tool and die maker, and machinist) but there are also apprenticeships in health care, social services, and education.

*A complete list of apprenticeships sponsored in Michigan is available at <http://www.openop.com/apprenticeshipschoolslist.asp>*

3. How long does an apprenticeship last? Apprenticeships can be one to five years in length, 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 576 hours of classroom instruction. Over the course of the four years, this would equal forty 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).

4. Does an apprentice earn wages? Since an apprentice is a full-time employee of the company that sponsors the apprenticeship, s/he earns wages just like any other employee. Starting wages are usually 40-50% of the journeyperson's wage, and go up as the apprentice completes training and gains more experience and skill.
5. Who is eligible to become an apprentice? Apprenticeships are open to everybody. Many require that the apprentice be at least 18 years old and have a high school diploma or GED. Some apprenticeships have minimum requirements for math and/or science. Strong math and reading skills are essential.
6. Why should I become an apprentice?

- Apprentices begin working (and earning money) immediately in a 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 journeyperson's card, 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.

7. 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 JAC), or through a partnership between a community college and an employer.

JAC may have different requirements or procedures for applying for an apprenticeship; some will only accept applications 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 have to 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 apprenticeship coordinator at the college for assistance. **\*All certified apprentices can apply their related technical instruction toward an associate's degree. Journeypersons can receive up to 32 credit hours toward their associate's degree which is 64 credit hours. Contact Oakland Community College at (248) 232-4394 or another community college of your choice.**

8. How do I prepare for an apprenticeship?

- Take math and science classes every year of high school.
- 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.
- 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.

9. Do apprentices go to college? Apprenticeships are a combination of on-the-job (OJT) and classroom education that directly applies to the job. Classes may be offered by 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.

10. Where can I learn more? Visit the Michigan Apprenticeship Steering Committee website (<http://www.aboutmasci.org/>) to learn more about apprenticeships in Michigan, including:

- apprenticeships by county
- apprenticeships available across the state
- apprenticeships by trade
- apprenticeship schools
- community colleges that participate in apprenticeship programs
- and more!

Plus <http://www.meata.org> (Michigan Educators Apprenticeship Training Association) and the following sites:

The U.S. Department of Labor's Office of Apprenticeship website (<http://www.doleta.gov/OA/>) has additional information for apprentices and employers.

For a list of apprenticeship opportunities by county, go to: <http://oa.doleta.gov> and follow the **Search Program Sponsors Database** link.

For more information about occupations, including those that offer apprenticeships, visit [www.milmi.org](http://www.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.

## SECTION III EMPLOYER BENEFITS

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

- Provide a catalyst for high performance and productivity;
- 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;
- Add to employee retention; and
- Are business driven.

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

### **Additional apprenticeship benefits follow:**

- 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.

If you are an employer who wants more information about sponsoring an apprenticeship, please contact your local community college's apprenticeship coordinator. Oakland Community College's coordinator can be reached at (248) 232-4394.

## SECTION IV

# APPRENTICESHIPS BY CATEGORY

This section of the booklet contains information about specific occupations for which apprenticeships have been developed. This is not a complete list – there are over 860 occupations with 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 contains the following information:

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

**Length of apprenticeship:** The length of time or number of hours required to complete this apprenticeship. Apprenticeships last from 2-5 years, although most are 4 years in length. All apprenticeships include classroom instruction as part of the program.

**Labor market forecast:** The number of job openings expected in the Detroit metropolitan area in the next 5 years. These are projections and do not guarantee a job opening. All projections are from the Michigan Department of Energy, Labor and Economic Growth's Bureau of Labor Market Information and Strategic Initiatives, as found on the Career InfoNet website ([www.careerinfonet.org](http://www.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 Energy, Labor and Economic Growth's Bureau of Labor Market Information and Strategic Initiatives, as found in the 2008 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 is made to ensure that the information in this book is complete and up-to-date; please contact the listed apprenticeship 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 apprenticeship 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 [zehndere@oakgov.com](mailto:zehndere@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.

## A list of occupations, by category

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## 1. ASBESTOS WORKER

**Job Description:** Asbestos workers and other hazardous waste workers identify, remove, pack, 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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 29 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Asbestos workers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$18.67 and an average yearly salary of \$38,800.

### **Apprenticeship School:**

**Asbestos Workers Apprentice Training Center Local 207**

26453 Northline Road

Taylor, Michigan 48336

(800) 207-5622 (Apprentice Coordinator)

### **Applicant Requirements:**

Applicants must have a high school diploma or a general equivalency diploma (GED), be at least 18 years old, and possess a valid driver's license. Applicants must also live in Wayne, Oakland, Macomb, St. Clair, or eastern Washtenaw Counties.

### **Community College Apprenticeship Program for Asbestos Workers:**

**Mott Community College**

1401 East Court Street

Flint, Michigan 48503

(810) 762-0585 (Apprentice Coordinator)

### **College Admission Requirements:**

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

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## 2. AUTO BODY REPAIRER

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

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 92 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Auto body repairers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.67 and an average yearly salary of \$45,100.

### **Community College Apprenticeship Programs for Auto Body Repairers:**

**Oakland Community College**

2900 Featherstone Road

Auburn Hills, Michigan 48326

(248) 232-4394 (Apprentice Coordinator)

**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)



**College Admission Requirements:**

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

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**3. AUTOMOBILE MECHANIC**

**Job Description:** Automotive mechanics diagnose, repair and overhaul automobiles, buses, trucks, and automotive vehicles.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 391 annual job openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Automobile mechanics in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$22.45 and an average yearly salary of \$46,700.

**Community College Apprenticeship Programs for Automobile Mechanics:**

**Henry Ford Community College**  
5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)



**College Admission Requirements:**

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

#### 4. AUTOMOTIVE SERVICE TECHNICIAN

**Job Description:** Automotive service technicians adjust and repair automobiles, buses, trucks, and automotive vehicles.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 391 annual job openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Automotive service technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$22.45 and an average yearly salary of \$46,700.

#### **Community College Apprenticeship Programs for Automotive Service Technicians:**

##### **Baker College – Auburn Hills**

1500 University Drive  
Auburn Hills, Michigan 48326  
(888) 429-0410

##### **Baker College – Flint**

1050 W. Bristol Road  
Flint, Michigan 48307  
(800) 964-4299

##### **Henry Ford Community College**

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

##### **Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

#### **College Admission Requirements:**

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

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#### 5. BAKER

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

**Length of Apprenticeship:** One to two years

**Labor Market Forecast:** 50 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Bakers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$13.35 and an average yearly salary of \$27,800.

## Vocational-Technical Apprenticeship Programs for Bakers:

### Frederick V. Pankow Center

24600 Pankow Blvd.  
Clinton, Michigan 48306  
(586) 783-6570 x1347 (Apprentice Coordinator)

### Warren Career Prep Center

12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

## Applicant Requirements:

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.



## Community College Apprenticeship Programs for Bakers:

### Mott Community College

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

## College Admission Requirements:

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

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## 6. BOILERMAKER

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

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 21 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Boilermakers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$22.61 and an average yearly salary of \$47,000.

**JAC Apprenticeship School:**

**Boilermakers Training Center ([www.boilermakerslocal169.com](http://www.boilermakerslocal169.com))**

5936 Chase Road

Dearborn, Michigan 48126

(313) 584-8520 (Administrator)

**Applicant Requirements:**

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

**Community College Apprenticeship Program for Boilermakers:**

**Henry Ford Community College**

5101 Evergreen

Dearborn, Michigan 48128

(313) 845-9609 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**7. BRICKLAYER**

**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.



**Length of Apprenticeship:** Three years

**Labor Market Forecast:** 68 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Bricklayers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.97 and an average yearly salary of \$49,900.

**JAC Apprenticeship School:**

**International Masonry Institute ([www.bricklayers.org](http://www.bricklayers.org)) Click on IMI Training**

Detroit Metropolitan Masonry Joint Apprentice Training Center

21031 Ryan Road

Warren, Michigan 48091

(586) 757-6668 (Apprentice Coordinator)

**Applicant Requirements:**

Applicants must be 18 or older, be in possession of 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.

## 8. CABINET MAKER

**Job Description:** Cabinet makers and bench carpenters cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, including power saws, jointers, mortisers, to surface, cut, or shape lumber, or to fabricate parts for wood products.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 37 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Cabinet makers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$16.37 and an average yearly salary of \$34,000.

**JAC Apprenticeship School:**  
**Detroit Carpenters Apprenticeship School**  
1401 Farrow  
Ferndale, Michigan 48220  
(248) 541-2740 (Director)



### Applicant Requirements:

Applicants must have a high school diploma or GED and be at least 18 years old.

### Community College Apprenticeship Program for Cabinet Makers:

**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

### College Admission Requirements:

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

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## 9. CAREER DEVELOPMENT TECHNICIAN

**Job Description:** Career development technicians assess adult/youth job readiness and personal growth goals; assist the customer/youth with job search; maintain customer/youth case records; and generate, analyze and interpret program data and other statistical records. They also establish agreements with businesses to provide placement and on-the-job learning; establish agreements with non-profit agencies or post secondary institutions to provide necessary life skills to adults; and administer and interpret assessments for customers/youth to determine their interests, abilities, and job skills.

**Length of Apprenticeship:** 4500 hours on-the-job plus college credit hours.

**Labor Market Forecast:** Data is unavailable.

**Average Hourly/Yearly Wage:** Career development technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$14.00 and an average yearly salary of \$29,100.

## **Community College Apprenticeship Program for Career Development Technicians:**

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



### **College Admission Requirements:**

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

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## **10. CARPENTER**

**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 subflooring, 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, as part of their job, carpenters assemble plywood, wallboard, and many other materials.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 389 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Carpenters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.16 and an average yearly salary of \$48,200.

### **JAC Apprenticeship School:**

**Detroit Carpenters Apprenticeship School ([www.detcarpapp.org](http://www.detcarpapp.org))**  
1401 Farrow  
Ferndale, Michigan 48220  
(248) 541-2740 (Director)

### **Applicant Requirements:**

A high school diploma or GED, birth certificate, Social Security card, and picture identification are required at the time of application. Applicants must be at least 17 years of age and be able to pass a drug screen.

### **Community College Apprenticeship Programs for Carpenters:**

**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Mott Community College – Listed under Building Construction program**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



### **College Admission Requirements:**

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

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## **11. CARPENTER/FLOOR LAYER**

**Job Description:** Carpenters/Floor layers install carpeting, hardwood flooring, soft tiles, and “linoleum type” products that are made of vinyl and rubber. Floor layers install a wide range of decorative floor coverings in commercial buildings, hotels, homes, and churches.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 389 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Carpenters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.16 and an average yearly salary of \$48,200.



### **JAC Apprenticeship School:**

**Detroit Carpenters Apprenticeship School ([www.detcarpapp.org](http://www.detcarpapp.org))**  
1401 Farrow  
Ferndale, Michigan 48220  
(248) 541-2740 (Director)

### **Applicant Requirements:**

A high school diploma or GED, birth certificate, Social Security card, and picture identification are required at the time of application. Applicants must be at least 17 years of age and be able to pass a drug screen.

### **Community College Apprenticeship Programs for Carpenter/Floor Layer:**

**Mott Community College – Listed under Building Construction program**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

## College Admission Requirements:

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

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## 12. CEMENT MASON

**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.

**Length of Apprenticeship:** Three years

**Labor Market Forecast:** 49 annual job openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Cement masons in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$22.89 and an average yearly salary of \$47,600.

### JAC Apprenticeship Schools:

#### Cement Masons OPCMIA Local 514

1154 E. Lincoln Avenue  
Madison Heights, Michigan 48071  
(248) 548-0800 (Coordinator)

#### Cement Masons BAC Local 1 ([www.bricklayers.org](http://www.bricklayers.org))

Click on IMI Training  
International Masonry Institute Training Centers  
21031 Ryan Road  
Warren, Michigan 48091  
(586)757-6668



### Applicant Requirements:

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

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## 13. CERTIFIED NURSE'S AIDE

**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.

**Length of Apprenticeship:** One Year

**Labor Market Forecast:** 550 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Nurse's Aides in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$12.16 and an average yearly salary of \$25,300.

## Vocational-Technical Center Programs for Certified Nurse's Aides:

### Frederick V. Pankow Center

24600 Pankow Blvd.  
Clinton, Michigan 48306  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

### Warren Career Prep Center

12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)



## Admission Requirements:

Adult applicants must be a high school graduate or a GED recipient and 18 years of age or older. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.

## Community College Apprenticeship Program for Certified Nurse's Aides:

### Mott Community College

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

## College Admission Requirements:

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

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## 14. CHILD DEVELOPMENT SPECIALIST

**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.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 603 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Child development specialists in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$9.97 and an average yearly salary of \$20,700.

## Community College Apprenticeship Programs for Child Development Specialists:

### Macomb Community College

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)



**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

### **College Admission Requirements:**

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

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## **15. COOK/CULINARY ARTS**

**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 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.

**Length of Apprenticeship:** Three years

**Labor Market Forecast:** 53 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly Wage/Yearly Wage:** Chefs/Head Cooks in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$18.82 and an average yearly salary of \$39,100.

### **Community College Apprenticeship Programs for Cooks/Culinary Arts:**

**Henry Ford Community College**  
5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7334 (Apprentice Coordinator)

**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)



**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**16. DENTAL ASSISTANT**

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

**Length of Apprenticeship:** One year

**Labor Market Forecast:** 240 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Dental assistants in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$15.77 and an average salary of \$32,800.

**Vocational-Technical Center Programs for Dental Assistants:**

**Frederick V. Pankow Center**  
24600 Pankow Blvd.  
Clinton, Michigan 48306  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

**Warren Career Prep Center**  
12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)



**Admission Requirements:**

Adult applicants must be a high school graduate or a GED recipient and 18 years of age or older. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.

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**17. DIE MAKER**

**Job Description:** Die makers engrave designs onto steel dies that are used to produce textile rollers. They use engravers' hand tools and machines.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 206 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Die makers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$25.43 and an average yearly salary of \$52,900.

## Community College Apprenticeship Programs for Die makers:

### Henry Ford Community College

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

### Macomb Community College

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

### Mott Community College

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

## College Admission Requirements:

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

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## 18. DIESEL MECHANIC

**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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 116 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Diesel mechanics in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.83 and an average yearly salary of \$45,400.

## Community College Apprenticeship Programs for Diesel Mechanics:

### Henry Ford Community College

5101 Evergreen Road  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)



**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**19. DIRECT SUPPORT SPECIALIST**

**Job Description:** Direct support specialists care for individuals with developmental or psychiatric disabilities in a licensed group home setting. The Direct Support Professional (DSP) supports individuals with disabilities and others who need assistance to lead self-directed lives and contribute to their communities. The DSP provides support and information to participants; uses a range of communication skills and strategies to establish collaborative relationships with the participant and others; assesses the needs and interests of the participant; assists the participant in identifying and using existing support networks; helps participants plan and implement supports based on individual strengths, choices and capabilities; assists the participant in managing every day aspects of life; assists participants in overcoming challenges through advocacy; provides vocational, educational, and career support; uses appropriate strategies for crisis prevention and intervention; contributes to the goals of the work organization; and completes necessary documentation in an efficient and timely manner.

**Length of Apprenticeship:** One and a half years

**Labor Market Forecast:** 510 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Direct support specialists in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$12.00 and an average yearly wage of \$24,000.

**Apprenticeship Programs for Direct Support Specialists:**

**Macomb-Oakland Regional Center/Auburn Hills**

ATTN: Training Department  
1270 Doris Road  
Auburn Hills, Michigan 48326  
(248) 276-8031

**Macomb-Oakland Regional Center/Clinton Township**

16200 Nineteen Mile Road  
Clinton Township, Michigan 48038  
(586) 263-8700

**Applicant Requirements:**

Applicants must be at least 18 years old and have a high school diploma or GED. Applicants may be subject to a physical fitness or agility test and drug test upon acceptance to the program and prior to being employed.

## 20. DRYWALL FINISHER/TAPER

**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.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 24 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Drywall finishers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.33 and an average yearly salary of \$44,400.

**JAC Apprenticeship School:**

**Painters Apprenticeship School**

14587 Barber Street

Warren, Michigan 48088

(586) 552-4481 (Apprenticeship Instructor)



**Applicant Requirements:**

A high school diploma or GED is required, and a drug test must be taken and passed.

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## 21. ELECTRICIAN

**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.

**Length of Apprenticeship:** Five years

**Labor Market Forecast:** 237 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Electricians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$29.83 and an average yearly salary of \$62,000.

**JAC Apprenticeship School:**

**Detroit Joint Apprenticeship and Training Committee ([www.ibewlocal58.org](http://www.ibewlocal58.org))**

**Electrical Industry Training Center**

2277 East Eleven Mile Road, Suite #1

Warren, Michigan 48092

(586) 751-6600 (Training Director)

**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).

## Community College Apprenticeship Programs for Electricians:

### Henry Ford Community College

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

### Macomb Community College

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(810) 445-7519 (Apprentice Coordinator)

### Mott Community College

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



## College Admission Requirements:

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

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## 22. ELECTRICIAN/INSIDE WIREMAN

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

**Length of Apprenticeship:** Five years

**Labor Market Forecast:** 237 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Electricians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$29.83 and an average yearly salary of \$62,000.



### JAC Apprenticeship School:

**Detroit Joint Apprenticeship and Training Committee ([www.ibewlocal58.org](http://www.ibewlocal58.org))**

### Electrical Industry Training Center

2277 East Eleven Mile Road, Suite 1  
Warren, Michigan 48092  
(586) 751-6600 (Training Director)

### **Applicant Requirements:**

Applicants must be at least 18 years of age and have a high school education, including one year of high school algebra. Applicants must also pass a drug test and take a qualifying examination.

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### **23. ELECTRICIAN/VDV INSTALLER TECHNICIAN**

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

**Length of Apprenticeship:** Three years

**Labor Market Forecast:** 50 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** VDV installer technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$24.14 and an average yearly salary of \$50,200, depending on specialization.

**JAC Apprenticeship School:**

**Detroit Joint Apprenticeship and Training Committee ([www.ibewlocal58.org](http://www.ibewlocal58.org))**

Electrical Industry Training Center  
2277 East Eleven Mile Road, Suite 1  
Warren, Michigan 48092  
(586) 751-6600 (Training Director)

### **Applicant Requirements:**

Applicants must be at least 18 years of age and have a high school education, including one year of high school algebra. Applicants must also pass a drug test and take a qualifying examination.

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### **24. ELECTRICIAN/RESIDENTIAL WIREMAN**

**Job Description:** Residential wiremen are electrical workers who specialize in installing all of the electrical systems, including power, lighting, and controls in single-family and multiple family houses or dwellings.

**Length of Apprenticeship:** Five years

**Labor Market Forecast:** 237 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Residential wiremen in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$35.85 and an average yearly salary of \$74,600.



**JAC Apprenticeship School:**

**Detroit Joint Apprenticeship and Training Committee ([www.ibewlocal58.org](http://www.ibewlocal58.org))**

Electrical Industry Training Center  
2277 East Eleven Mile Road, Suite 1  
Warren, Michigan 48092  
(586) 751-6600 (Training Director)

## **Applicant Requirements:**

Applicants must be at least 18 years of age and have a high school education, including one year of high school algebra. Applicants must also pass a drug test and take a qualifying examination.

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### **25. ELEVATOR CONSTRUCTOR/INSTALLER**

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

**Length of Apprenticeship:** Six months probationary period, plus four years of classroom and on-the-job training.

**Labor Market Forecast:** 25 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Elevator constructors/installers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$27.22 and an average yearly salary of \$56,600.

#### **JAC Apprenticeship School:**

##### **Elevator Constructors Local 36**

1640 Porter Street

Detroit, Michigan 48216

(313) 961-0717 (Apprentice Coordinator)



## **Applicant Requirements:**

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

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### **26. FACILITY MAINTENANCE MECHANIC**

**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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 579 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Facility maintenance mechanics in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$19.67 and an average yearly salary of \$40,900.



## Community College Apprenticeship Program for Facility Maintenance Mechanics:

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

### College Admission Requirements:

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

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## 27. FLORAL DESIGNER

**Job Description:** Floral designers design, cut, and arrange live, dried, or artificial flowers and foliage. They may order and purchase flowers and supplies from wholesalers and growers. They may confer with customers regarding the price and type of arrangement and inform them about the care and maintenance of various flowers, foliage, and indoor plants.

**Length of Apprenticeship:** One year

**Labor Market Forecast:** 15 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Floral designers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$11.44 and an average yearly salary of \$23,800.

### Vocational-Technical Center Programs for Floral Designers:

#### Frederick V. Pankow Center

24600 Pankow Blvd.  
Clinton, Michigan 48306  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

#### Warren Career Prep Center

12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)



### Admission Requirements:

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify additional requirements. Adult enrollments may be limited, based on program openings.

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## 28. FORGING MACHINE SETTER

**Job Description:** Forging machine setters set up, operate, and/or tend machines to perform hot or cold forging. They flatten, straighten, bend, cut, pierce, and or perform other operations to taper, shape, or form metal or plastic parts. They measure and inspect machined parts to ensure conformance to product specifications.

**Length of Apprenticeship:** Three to four years

**Labor Market Forecast:** 22 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Forging machine setters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$15.71 and an average yearly salary of \$32,700.

**Community College Apprenticeship Program for Forging Machine Setters:**

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



**College Admission Requirements:**

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

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**29. GLAZIER AND GLASSWORKER**

**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.

**Length of Apprenticeship:** 4 years

**Labor Market Forecast:** 24 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Glaziers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$19.74 and an average yearly salary of \$41,100.

**JAC Apprenticeship School:**  
**Glaziers Apprentice School**  
14587 Barber Street  
Warren, Michigan 48088  
(586) 552-4483 (Apprenticeship Coordinator)



**Applicant Requirements:**

Applicants must have a high school diploma or GED. They must have mechanical aptitude, good math skills, and the ability to work well with their hands. Applicants also must live in the geographic jurisdiction one year prior to application. Applicants will be supplied a signatory contractor listing for employment.

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**30. HEAT & FROST INSULATOR**

**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.).

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 10 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Heat and frost insulators in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$30.32 and an annual yearly salary of \$63,100.

**JAC Apprenticeship School:**

**Heat & Frost Insulators, Local 25 Joint Apprentice Training Center**  
21353 Bridge Street  
Southfield, Michigan 48033  
(248) 352-1850 (Apprentice Coordinator)

**Applicant Requirements:**

Applicants must have a high school diploma or GED, be a minimum of 18 years old, possess a valid driver license and live in the geographical area (Wayne, Oakland, Macomb, St. Clair and Eastern Washtenaw Counties).

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**31. HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANIC AND INSTALLER**

**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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 101 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Heating, air Conditioning, and refrigeration mechanics and installers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.01 and an annual yearly salary of \$47,900.

**Community College Apprenticeship Program for Heating, Air Conditioning, and Refrigeration Mechanics and Installers:**

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



**College Admission Requirements:**

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

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**32. IRON WORKER**

**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.

**Length of Apprenticeship:** Three to four years

**Labor Market Forecast:** 30 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Iron workers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$24.45 and an annual yearly salary of \$50,900.

**JAC Apprenticeship School:**

**Iron Workers Apprenticeship School**

50490 W. Pontiac Trail

Wixom, Michigan 48393

(248) 960-2130 (Apprentice Coordinator)



**Applicant Requirements:**

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

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### 33. LANDSCAPE TECHNICIAN

**Job Description:** Landscape technicians landscape or maintain grounds, using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units. They may use hand tools or operate powered equipment, including mowers, tractors, twin-axle vehicles, snow blowers, chain-saws, electric clippers, and sod cutters, and pruning saws. They may care for established lawns; trim and edge around flower beds, walks, and walls; maintain and repair tools, equipment, and structures, including buildings, greenhouses, fences, and benches; and provide proper upkeep of other grounds' features.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 433 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Landscape technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$11.87 and an annual yearly salary of \$24,700.

**Vocational-Technical Center Program for Landscape Technicians:**

**Frederick V. Pankow Center**

24600 Pankow Blvd.

Clinton, Michigan 48306

(586) 783-6570 ext. 1347 (Apprentice Coordinator)

**Admission Requirements:**

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify any additional requirements. Enrollments may be restricted based on program openings.



## **Community College Apprenticeship Program for Landscape Technicians:**

### **Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

### **College Admission Requirements:**

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

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## **34. MACHINIST**

**Job Description:** Machinists set up and operate a variety of machine tools to produce precision parts and instruments. This job classification includes precision instrument makers who fabricate, modify, and/or repair mechanical instruments. Machinists may also fabricate and modify parts to make or repair machine tools or maintain industrial machines, and they apply to the job their knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 306 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Machinists in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$20.12 and an average yearly salary of \$41,900.

### **Community College Apprenticeship Programs for Machinists:**

#### **Macomb Community College**

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

#### **Mott Community College**

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

#### **Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



### **College Admission Requirements:**

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

## 35. MACHINE BUILDER

**Job Description:** Machine builders construct, assemble, or rebuild machines, including engines, turbines, and similar equipment that is used in such industries as construction, extraction, textiles, and paper manufacturing. Machine builders may fasten and install piping, fixtures, or wiring and electrical components to form assemblies or subassemblies, using hand tools, rivet guns, and welding equipment. They may inspect, operate, and test completed products to verify functioning, machine capabilities, and conformance to customer specifications. They may read and interpret assembly blueprints and specifications manuals; plan assembly or building operations; and verify conformance of parts to stock lists and blueprints, using such measuring instruments as calipers, gauges, and micrometers.

**Length of Apprenticeship:** Two to four years

**Labor Market Forecast:** 138 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Machine builders in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.53 and an average yearly salary of \$49,000.

### Community College Apprenticeship Programs for Machinists:

#### Macomb Community College

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

#### Mott Community College

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

#### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

### College Admission Requirements:

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

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## 36. MACHINE REPAIRER

**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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 73 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Industrial machine repairers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$25.77 and an average yearly salary of \$53,600.

**Community College Apprenticeship Programs for Machine Repairers:**

**Macomb Community College**

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Mott Community College**

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

**Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**37. MEDICAL ASSISTANT**

**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.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 374 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Medical assistants in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$13.09 and an average yearly salary of \$27,200.

**Vocational-Technical Center Program for Medical Assistants:**

**Frederick V. Pankow Center**

24600 Pankow Blvd.  
Clinton, Michigan 48306  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

**Admission Requirements:**

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.

## **Community College Apprenticeship Program for Medical Assistants:**

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



## **College Admission Requirements:**

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

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## **38. MILLWRIGHT**

**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.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 72 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Millwrights in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$29.32 and an average yearly salary of \$61,000.

### **JAC Apprenticeship School:**

**Millwrights 1102 Apprenticeship and Training**  
27555 Mound Road  
Warren, Michigan 48902  
(586) 573-4660 (Director)

## **Applicant Requirements:**

A high school diploma or GED is required. Applicants must be a minimum of 18 years of age with U.S. citizenship. A driver license and reliable transportation to travel throughout the southern half of Michigan are required. Applications must be picked up by the applicant, usually during the beginning of the year for two weeks only. Please phone in late December/early January for the exact time and date.

## **Community College Apprenticeship Programs for Millwrights:**

**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(810) 445-7519 (Apprentice Coordinator)

**Mott Community College**  
1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**39. OPERATING ENGINEER**

**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.

**Length of Apprenticeship:** 6,000 hours of classroom/hands-on training.

**Labor Market Forecast:** 109 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Operating engineers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$23.73 and an average yearly salary of \$49,400.

**JAC Apprenticeship School:**

**Operating Engineers Joint Apprenticeship Training Fund, Inc. (JATF)**  
275 E. Highland Road  
Howell, Michigan 48843  
(517) 546-9610 (Coordinator)  
([www.oe324jatf.org](http://www.oe324jatf.org))

**Applicant Requirements:**

Apprentice applicants must be high school graduates or possess a GED certificate, and they must be at least 18 years old 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.

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**40. PAINTER**

**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.

**Length of Apprenticeship:** Three years

**Labor Market Forecast:** 104 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Painters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.99 and an average yearly salary of \$45,700.

**JAC Apprenticeship School:**

**Painters Apprentice School**  
14587 Barber Street  
Warren, Michigan 48088  
(586) 552-4481 (Coordinator)

**Applicant Requirements:**

Applicants must possess a high school diploma or a GED. They cannot be color blind nor have an aversion to heights.

**Community College Apprenticeship Program for Painters:**

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



**College Admission Requirements:**

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

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**41. PHARMACY ASSISTANT**

**Job Description:** Pharmacy assistants prepare medications under the directions of a pharmacist. These technicians may mix, count out, label, and record amounts and dosages of medications.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 99 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Pharmacy assistants in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$13.00 and an average yearly salary of \$27,000.

**Vocational-Technical Center and Other Programs for Pharmacy Assistants:**

**CVS Pharmacy/Wayne County Community College**  
**Regional Learning Center**  
5901 Conner  
Detroit, Michigan 48213  
(313) 267-4070 (Manager)

**Frederick V. Pankow Center**  
24600 Pankow Blvd.  
Clinton, Michigan 48036  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)



**Warren Career Prep Center**  
12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

### **Admission Requirements:**

Adult applicants must be a high school graduate or a GED recipient and 18 years of age or older. The Apprenticeship Coordinator can identify any additional requirements. Adult enrollments at the Vocational-Technical Centers may be restricted, based on program openings.

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## **42. PHYSICAL THERAPY ASSISTANT**

**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.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 51 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Physical therapy assistants in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$17.71 and an average yearly salary of \$36,800.

### **Community College Apprenticeship Programs for Physical Therapy Assistants:**

**Henry Ford Community College**  
5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Baker College – Flint**  
1050 W. Bristol Road  
Flint, Michigan 48307  
(800) 964-4299



### **College Admission Requirements:**

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

### 43. PIPE FITTER

**Job Description:** Pipe fitters install both high and low pressure pipes that carry hot water, steam, and other liquids and gases, especially those in industrial and commercial buildings.

**Length of Apprenticeship:** Five years

**Labor Market Forecast:** 245 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Pipe fitters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$27.37 and an average yearly salary of \$56,900.

**JAC Apprenticeship School:**

**Pipefitting Industry Training Center**

636 Executive Drive

Troy, Michigan 48084

(248) 585-0636 (Director of Training)

**Applicant Requirements:**

Applicants must possess a high school diploma or GED, and they must be at least 18 years old 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.

**Community College Apprenticeship Programs for Pipe Fitters:**

**Henry Ford Community College**

5101 Evergreen

Dearborn, Michigan 48128

(313) 845-9609 (Apprentice Coordinator)

**Macomb Community College**

14500 East Twelve Mile Road

Warren, Michigan 48093

(586) 445-7519 (Apprentice Coordinator)

**Oakland Community College**

2900 Featherstone Road

Auburn Hills, Michigan 48326

(248) 232-4394 (Apprentice Coordinator)



**College Admission Requirements:**

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

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### 44. PLASTERER

**Job Description:** Plasterers finish interior walls and ceilings by using a one, two, or three-coat system over interior lath. 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.

**Length of Apprenticeship:** Three years

**Labor Market Outlook:** 4 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Plasterers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$26.86 and an average yearly salary of \$55,900.

**JAC Apprenticeship School:**

**Plasterers Local 67 – Business Office**

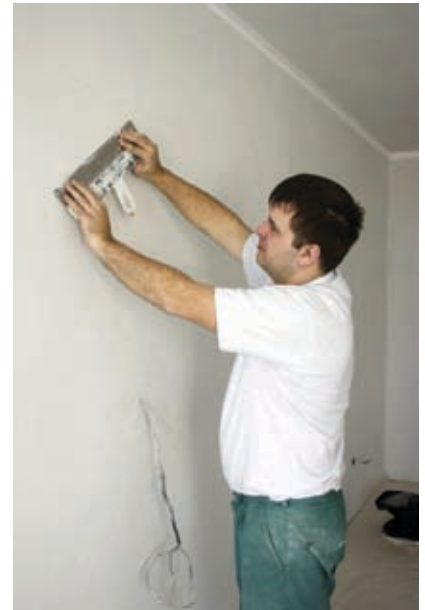
1154 East Lincoln Avenue  
Madison Heights, Michigan 48071  
(248) 591-6700 (Business Manager)

**School located at:**

5555 Cogswell  
Wayne, Michigan 48184

**Applicant Requirements:**

Applicants must possess a high school diploma or a GED, and they must be at least 18 years old.



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## 45. PLUMBER

**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.

**Length of Apprenticeship:** Five years

**Labor Market Forecast:** 245 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Plumbers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$27.37 and an average yearly salary of \$56,900.

**JAC Apprenticeship School:**

**Plumbing Industry Training Center**

1911 Ring Drive  
Troy, Michigan 48083  
(248) 585-1435 (Director of Training)

**Applicant Requirements:**

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

**Community College Apprenticeship Programs for Plumbers:**

**Henry Ford Community College**

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)



**Macomb Community College**  
14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Oakland Community College**  
2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**46. ROOFER AND WATERPROOFER**

**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.

**Length of Apprenticeship:** Three years

**Labor Market Outlook:** 61 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Roofers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.28 and an average yearly salary of \$44,300.



**JAC Apprenticeship School:**  
**Roofers Local 149/SMRCA Apprenticeship School**  
10621 Capital  
Oak Park, Michigan 48237  
(248) 543-3847 (Coordinator)

**Applicant Requirements:**

Applicants must be at least 18 years of age and have a dependable vehicle.

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**47. SHEET METAL WORKER**

**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.

**Length of Apprenticeship:** Five years

**Labor Market Outlook:** 68 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Sheet metal workers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$24.67 and an average yearly salary of \$51,300.

**JAC Apprenticeship Schools:****Sheet Metal Workers Local 80 Training Center**

32700 Dequindre  
Warren, Michigan 48092  
(586) 979-5190 (Training Director)

**Sheet Metal Workers Local 292 Training Center**

64 Park Street Suite 200  
Troy, Michigan 48083  
(248) 589-3237 (Administrator)

**Applicant Requirements:**

Applicants must possess a high school diploma or a GED, and they must be at least 18 years old. They must also take, and pass, a three part entrance exam. Information regarding entrance exams can be found by visiting [www.smw80jac.org](http://www.smw80jac.org) and clicking on Entrance Exam.

**Community College Apprenticeship Programs for Sheet Metal Workers:****Macomb Community College**

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

**Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

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**48. SPRINKLER FITTER**

**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.

**Length of Apprenticeship:** Five years

**Labor Market Outlook:** 245 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Sprinkler fitters in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$27.37 and an average yearly salary of \$56,900.

### **JAC Apprenticeship School:**

#### **Sprinkler Fitters Apprenticeship School**

32500 West Eight Mile Road  
Farmington, Michigan 48336  
(248) 473-8259 (Training Director)

#### **Applicant Requirements:**

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

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### **49. TILE, MARBLE AND TERRAZZO MASON**

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

**Length of Apprenticeship:** Four years

**Labor Market Outlook:** 26 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Tile/Marble masons in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$18.57 and an average yearly salary of \$38,600.

#### **JAC Apprenticeship School:**

#### **BAC Local 1, Michigan Joint Apprenticeship Training Center**

21031 Ryan Road  
Warren, Michigan 48091  
(586) 757-6668 (Business Manager)  
[www.bricklayers.org](http://www.bricklayers.org). Click on training.



#### **Applicant Requirements:**

Applicants must be 18 years of age, be in possession of a valid driver license, and have a high school diploma or GED. Residency in Wayne, Oakland, Macomb, Monroe, St. Clair, Sanilac, Washtenaw, Lenawee, or Livingston counties is required. Twelve weeks of pre-apprentice training is also required.

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### **50. TOOL AND DIE MAKER**

**Job Description:** Tool and die makers analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 203 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Tool and die makers in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$25.43 and an average yearly salary of \$52,900.

## **Community College Apprenticeship Programs for Tool and Die Makers:**

### **Macomb Community College**

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

### **Mott Community College**

1401 East Court Street  
Flint, Michigan 48503  
(810) 762-0585 (Apprentice Coordinator)

### **Oakland Community College**

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

## **College Admission Requirements:**

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

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## **51. UNDERCAR SPECIALIST**

**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.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 391 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Automotive specialty technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$22.45 and an average yearly salary of \$46,700.

## **Vocational-Technical Center Programs for Undercar Specialists:**

### **Frederick V. Pankow Center**

24600 Pankow Blvd.  
Clinton, Michigan 48036  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

### **Warren Career Prep Center**

12200 15 Mile Road  
Sterling Heights, Michigan 48312  
(586) 825-2511 (General Telephone Number)  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)

## **Admission Requirements:**

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.

## Community College Apprenticeship Programs for Undercar Specialists:

### Henry Ford Community College

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



## College Admission Requirements:

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

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## 52. VETERINARY TECHNICIAN

**Job Description:** Veterinary technicians perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. They prepare vaccines and serums for prevention of diseases. They prepare tissue samples, take blood samples, execute such laboratory tests as urinalysis and blood counts, clean and sterilize instruments and materials, and maintain equipment and machines.

**Length of Apprenticeship:** One year

**Labor Market Forecast:** 32 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Veterinary technicians in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$15.08 and an average yearly salary of \$31,400.

### Vocational-Technical Center Program for Veterinary Technicians:

#### Frederick V. Pankow Center

24600 Pankow Blvd.  
Clinton, Michigan 48036  
(586) 783-6570 ext. 1347 (Apprentice Coordinator)



## Admission Requirements:

Adult applicants must have a high school diploma or GED and be at least 18 years old. The apprenticeship coordinator can identify any additional requirements. Adult enrollments may be restricted, based on program openings.

## Community College Apprenticeship Program for Veterinary Technicians:

### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)

### College Admission Requirements:

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

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## 53. WELDER

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

**Length of Apprenticeship:** Four years

**Labor Market Forecast:** 184 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly Wage:** Welders in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$21.13 and an annual average yearly salary of \$44,000.

### Community College Apprenticeship Programs for Welders:

#### Henry Ford Community College

5101 Evergreen  
Dearborn, Michigan 48128  
(313) 845-9609 (Apprentice Coordinator)

#### Macomb Community College

14500 East Twelve Mile Road  
Warren, Michigan 48093  
(586) 445-7519 (Apprentice Coordinator)

#### Oakland Community College

2900 Featherstone Road  
Auburn Hills, Michigan 48326  
(248) 232-4394 (Apprentice Coordinator)



### College Admission Requirements:

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

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## 54. YOUTH DEVELOPMENT PRACTITIONER

**Job Description:** Youth development practitioners instruct job applicants in presenting a positive image by providing help with resume writing, personal appearance, and interview techniques; refer applicants to services such as vocational counseling, literacy or language instruction, transportation assistance, vocational training and child care as needed; conduct workshops and demonstrate the use of job listings to assist applicants with skill building; inform applicants of job openings and relevant details such as duties and responsibilities, compensation, and schedules; interview job applicants to match their qualifications with employers' needs; review employment applications and job orders to match applicants with job requirements; select qualified applicants or refer them to employers; perform reference and background checks on applicants; maintain records of applicants not selected for employment; and contact employers to determine their requirements and solicit orders for job vacancies.

**Length of Apprenticeship:** Two years

**Labor Market Forecast:** 150 annual openings in the Detroit Metropolitan Statistical Area.

**Average Hourly/Yearly wage:** Youth development practitioners in the Detroit Metropolitan Statistical Area earn an average hourly wage of \$20.40 and an average yearly wage of \$42,420.

**Community College Apprenticeship Program for Youth Development Practitioners:**

**Oakland Community College**

2900 Featherstone Road

Auburn Hills, Michigan 48326

(248) 232-4394 (Apprentice Coordinator)

**College Admission Requirements:**

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

## SECTION V

# SCHOOL-TO-REGISTERED APPRENTICESHIP PROGRAMS

High school students who are at least 16 years of age 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 fulltime 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 coordinators at the following addresses and telephone numbers:

### **Macomb County:**

#### **Frederick V. Pankow Center**

24600 Pankow Blvd.

Clinton Township, Michigan 48036

(586) 783-6570

### **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 VI

# GLOSSARY OF KEY TERMS

Brief definitions for key terms used throughout this booklet follow:

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 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 Department of Energy, Labor and Economic Growth (MDELEG): Among its other responsibilities, the MDELEG administers workforce development programs for the State of Michigan.

Michigan Works! Agencies (MWAs): MWAs are geographic areas the Governor has designated throughout Michigan to administer and operate workforce development programs. The following MWAs have been designated in the Detroit MSA: the Southeast Michigan Community Alliance (SEMCA), which includes Wayne County (excluding Detroit) and Monroe County; the City of Detroit; Oakland County; Macomb/St. Clair Counties; the Thumb Area; and Livingston County.

Michigan Works! Service Centers: Service Centers are one-stop offices that are located throughout the State, and 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, Oxford, 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 years of age can enroll in a School-to-Registered Apprenticeship Program that begins when they are in school and continues after their graduation.

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  
Glenn M. Bivens, State Director  
Carmell F. Anderson, Regional Representative
- The Michigan Department of Energy, Labor and Economic Growth’s Bureau of Labor Market Information and Strategic Initiatives  
Richard H. Waclawek, Director
- The Michigan Department of Energy, Labor and Economic Growth’s Bureau of Workforce Transformation  
Liza Estlund Olson, Director  
Barbara Schulz, Manager – Michigan Talent Bank Services  
Gary Clark, Accelerating Employment Division Director
- Management and Unions Serving Together (MUST)
- The Oakland County Workforce Development Board
- Deputy Oakland County Executive Dennis Toffolo
- Douglas Smith, Director – Oakland County Department of Economic Development and Community Affairs
- Judith Cunningham – Oakland County Corporation Counsel
- Joellen Shortley Blaszcak, Financial Attorney – Oakland County Corporation Counsel
- Robert Dustman, Oakland County Media and Communications Officer
- The Oakland County Print Shop
- The Workforce and Education Committee of the Oakland County Business Roundtable
- The Oakland Education Advisory Group
- Oakland Community College  
Dr. Timothy R. Meyer, Chancellor  
Janene Erne, Apprenticeship Coordinator
- Oakland Schools  
Dr. Vickie Markavitch, Superintendent  
Mario Bravo, Apprenticeship Coordinator
- The Troy Michigan Works! Service Center  
Dorothy Kaltz, Manager  
Jennifer Bowden, Training Specialist

**Funded by:**

**The Michigan Department of Energy, Labor and Economic Growth**

**Stanley “Skip” Pruss, Director**

**and the Oakland County Workforce Development Board**

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**The Oakland County Workforce Development Division**

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**Cover design and booklet layout by Lacy Skidmore, Graphic Intern**

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

**Oakland County’s telephone number for the deaf and deafened is (248) 858-5511.**

**Oakland County is an Equal Employment Opportunity Program/Employer.**

**Employers, employer and labor organizations, joint apprenticeship committees, community colleges, technical centers and other interested parties who want their apprenticeship programs 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**

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**L. Brooks Patterson, Oakland County Executive**



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