



APPRENTICESHIPS IN OAKLAND COUNTY

& SOUTHEASTERN MICHIGAN

2013 EDITION



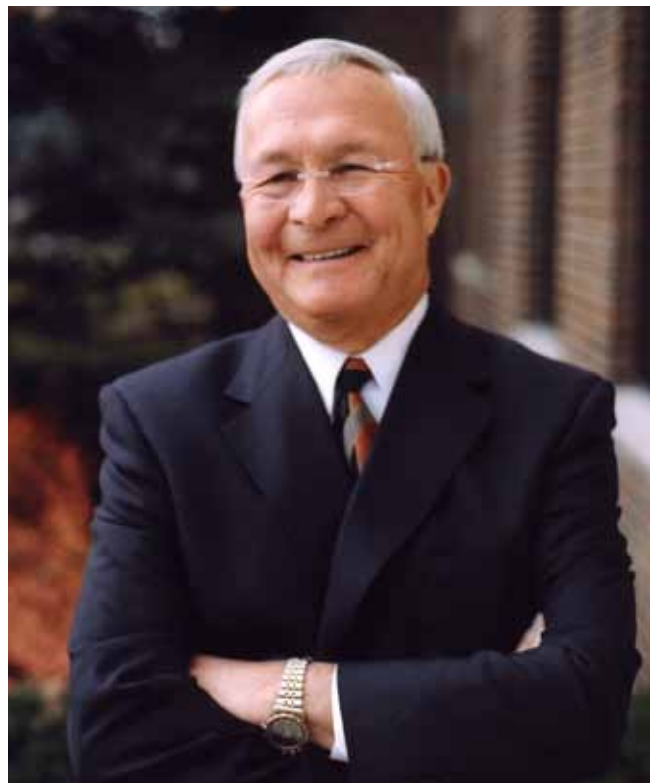
A MESSAGE FROM OAKLAND COUNTY EXECUTIVE L. BROOKS PATTERSON

On behalf of our region's employers, labor organizations, and educators, I invite you to read this 2013 edition of our Apprenticeship Guide, 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 8,000 copies of the guide's first five 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 the first edition contained "an eye opening 30 pages of information," and the National Association of Counties awarded the guide a prestigious achievement award.

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, 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, 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 journeyman's card, and college credits the apprentice earns can be applied to an associate's degree.

This edition updates information and highlights 52 occupations, 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 Guide useful as you explore the lucrative careers that are available through the apprenticeship system.

L. Brooks Patterson
Oakland County Executive

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QUESTIONS AND ANSWERS ABOUT APPRENTICESHIPS

1 What is an apprenticeship?

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

2 What occupations offer apprenticeships?

More than 1,000 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 and electrician), but apprenticeships are also available in health care, social services, education, law enforcement, child care development, and new emerging sectors, including information technology, energy, telecommunications and more.

3 How long does an apprenticeship last?

Apprenticeships can last one to five years, but most are 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 40 hours per week of work and an average of less than three hours per week in the classroom (although the actual class schedule may be different).

4 Does an apprentice earn wages?

Since apprentices are full-time employees of the company that sponsors the apprenticeship, they earn wages just like any other employee. Starting wages are usually 40-50 percent of the journeyman's wage, and go up as the apprentice completes training and gains more experience and skills.

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 certificate. 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 their chosen field.
- All the training and education apprentices receive are directly related to their work.
- After successfully completing the program, apprentices receive a nationally recognized Certificate of Completion from the U.S. Department of Labor's Office of Apprenticeship.
- If the apprenticeship is sponsored by a labor union, the apprentice will also receive a journeyman's card, and a guarantee of excellent wages and benefits anywhere in the country.
- Apprentices who take their instruction at a community college will receive a certificate and may be able to apply those credits toward an associate's degree. Many associate's degrees can be applied toward a bachelor's degree at a four-year college or university.

7 How do I become an apprentice?

There are two ways: 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.

JACs 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 must be hired by an apprenticeship employer first. If you're interested in a particular apprenticeship but aren't sure whether there are any openings, contact the apprenticeship coordinator at the college for assistance.

**All certified apprentices can apply their related technical instruction toward an associate degree. Journeymen can receive up to 32 credit hours toward their associate degree, which consists of 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.
- Learn how to prepare for and take exams.
- Work part-time or during the summer for an employer with whom you are interested in apprenticing. Many employers prefer to hire internal candidates for apprenticeships.
- Get involved in extracurricular activities such as: woodworking, drawing, computers and science experiments.
- Do informational interviews with potential apprenticeship employers or the apprentice coordinator at the community college. This will help you understand the job more clearly and demonstrates your interest and commitment.
- If you lack some of the 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 training (OJT) and classroom education that directly applies to the job. Classes may be offered by the JAC, the employer, or at a local community college. The classes you take toward an apprenticeship may count toward an associate degree; contact the Apprentice Coordinator for more information.

10 Where can I learn more about apprenticeships?

Please visit the following websites:

- Explore more than 100 careers in the skilled trades, find out how to learn a trade, and get to know who's hiring at MiTradeSchool.org.
- Michigan Educators Apprenticeship Training Association (www.meata.org)
- The U.S. Department of Labor's Office of Apprenticeship (www.doleta.gov/OA/)
- For more information about occupations, including those that offer apprenticeships, visit 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 II

EMPLOYER BENEFITS

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

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

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

Additional apprenticeship benefits include:

Competency levels increase rapidly; employees very quickly put their newly acquired knowledge and expertise to productive use.

Apprenticeship programs respond to real-world business goals, including increased productivity/performance, greater efficiency, and improved attentiveness to safety concerns. Employers in the energy industry, for example, partner with credentialing and licensing agencies to ensure that apprentices get the training and instruction they need to meet the high level of competency the industry requires.

For additional information see www.doleta.gov/OA/employer.cfm

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 III

APPRENTICESHIPS BY CATEGORY

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

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

Job description

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

Length of apprenticeship

Apprenticeships last from 1-5 years, although most are four years. All apprenticeships include classroom instruction as part of the program.

Labor market forecast

The number of job openings expected in the Detroit Metropolitan Statistical Area (MSA) in the next five years. These are projections and do not guarantee a job opening. All projections are from the Michigan Department of Technology, Management, and Budget's Bureau of Labor Market Information and Strategic Initiatives, as found on the Career InfoNet website (www.careerinfonet.org).

Average hourly/yearly wage

The average hourly and yearly wage for this occupation in the Detroit MSA. These are averages and do not guarantee the wage for a particular occupation. All wage information is from the Michigan Department of Technology, Management, and Budget's Bureau of Labor Market Information and Strategic Initiatives, as found in the 2012 Annual Planning Information Report.

Apprenticeship programs

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

Applicant requirements

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

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

Every effort has been made to ensure that the information in this guide 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 almstadtj@oakgov.com.

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



OCCUPATIONS BY CATEGORY

CONSTRUCTION TRADES

- 12 Asbestos Worker/Hazardous Waste Worker
- 17 Bricklayer
- 19 Carpenter
- 20 Carpenter/Floorlayer
- 21 Cement Mason
- 30 Drywall Finisher/Taper
- 31 Electrician
- 32 Electrician/Inside Wireman
- 33 Electrician Telecommunications
Installer Technician
- 34 Electrician/Residential Wireman
- 35 Elevator Constructor/Installer
- 37 Facility Maintenance Mechanic
- 39 Glazier and Glassworker
- 40 Heat and Frost Insulator
Green Energy Movement
- 41 Heating, AC, and Refrigeration
Mechanic and Installer
- 42 Iron Worker
- 47 Millwright
- 49 Painter
- 52 Pipefitter
- 53 Plasterer
- 54 Plumber
- 55 Renewable Energy/Alternative
Energy Technician Green Technology
- 56 Roofer and Waterproofer
- 57 Sheet Metal Worker
- 58 Sprinkler Fitter
- 59 Tile, Marble, and Terrazzo Mason

MANUFACTURING AND PRODUCTION

- 16 Boilermaker
- 27 Die Maker
- 38 Forging Machine Setter
- 44 Machine Repairer
- 48 Operating Engineer
- 62 Welder

HEALTH CARE AND MEDICAL PROFESSIONS

- 22 Certified Nurse's Aide
- 25 Dental Assistant
- 26 Dental Lab Technician
- 29 Direct Care Staff
- 36 Emergency Medical Technician (EMT)/ Firefighter Paramedic
- 45 Medical Assistant
- 46 Medical Transcriptionist
- 50 Pharmacy Assistant/Technician
- 51 Physical Therapy Assistant
- 61 Veterinary Technician

SERVICE PROFESSIONS

- 13 Auto Body Repairer
- 14 Automobile Mechanic
- 15 Baker
- 18 Career Development Technician
- 23 Child Development Specialist
- 24 Cook/Culinary Arts
- 28 Diesel Mechanic
- 43 Landscape Technician
- 60 Undercar Specialist
- 63 Youth Development Practitioner

ASBESTOS WORKER/HAZARDOUS WASTE WORKER



Job Description

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

Apprenticeship 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.

Apprenticeship Program

Asbestos Workers Apprentice Training Center

Local 207
26453 Northline Road
Taylor, Michigan 48336

Kevin Meagher, Apprentice Coordinator
(800) 207-5622
www.local207.org



AUTO BODY REPAIRER

**LENGTH
OF APPRENTICESHIP**
4 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
198 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$23.68
yearly \$49,260

Job Description

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

College 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.

College Programs

Oakland Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224



AUTOMOBILE MECHANIC



Job Description

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

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

BAKER



Job Description

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

College 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.

College Programs

Henry Ford Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



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.

Apprenticeship 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.

Apprenticeship Program

Boilermakers Training Center

1755 Fairlane Drive
Allen Park, Michigan 48101
Administrator (313) 584-8520
www.boilermakerslocal169.com

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.

Apprenticeship 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.

Apprenticeship Program

International Masonry Institute

BAC Trowel Trades Union, Local 1

21031 Ryan Road

Warren, Michigan 48091

Tom Ward, Apprentice Coordinator (586) 757-6668

E-mail: tom.ward@bricklayers.org

Click on the IMI Training Tab at www.bricklayers.org

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.

College 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.

College Program

Oakland Community College

2900 Featherstone Road

Auburn Hills, Michigan 48326

Apprentice Coordinator (248) 232-4394

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.

College 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.

College Programs

Macomb Community College

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

Mott Community College

Listed under Building Construction program
1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator: (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Detroit Carpenters Apprenticeship School

1401 Farrow
Ferndale, Michigan 48220
Director (248) 541-2740
www.detcarpapp.org



CARPENTER/FLOORLAYER



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.

College 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.

College Programs

Macomb Community College

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

Mott Community College

Listed under Building Construction program
1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Detroit Carpenters Apprenticeship School

1401 Farrow
Ferndale, Michigan 48220
Director (248) 541-2740
www.detcarpapp.org

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.

Apprenticeship 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 Wayne, Oakland, Macomb, Monroe or St. Clair counties.

Apprenticeship Programs

Cement Masons OPCMIA Local 514

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

Cement Masons BAC Local 1 International Masonry Institute

21031 Ryan Road
Warren, Michigan 48091

Tom Ward, Apprentice Coordinator (586)757-6668
E-mail: tom.ward@bricklayers.org
www.bricklayers.org Click on the IMI Training Tab

CERTIFIED NURSE'S AIDE

**LENGTH
OF APPRENTICESHIP**
1 year

**MARKET FORECAST
FOR METRO DETROIT AREA**
560 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$12.86
yearly \$26,740

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.

College 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.

College Programs

Henry Ford Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



COOK/CULINARY ARTS

**LENGTH
OF APPRENTICESHIP**
3 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
28 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$22.03
yearly \$45,810

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

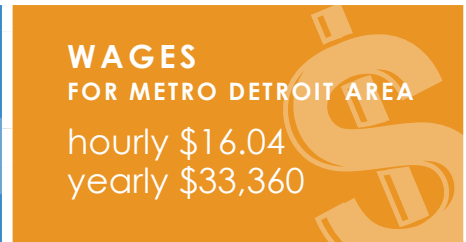
Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator 810) 762-0224

Oakland Community College

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

DENTAL ASSISTANT



Job Description

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

College 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.

College Programs

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Wayne County Community College

Northwest Campus

8200 W. Outer Drive
Detroit, Michigan 48219
Program Director 248-943-4045
E-mail: jguchhe1@wcccd.edu

Fall enrollment only

CAREER PROGRAM HOTLINE: 1-800-300-2118



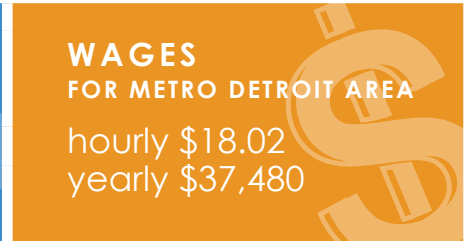
DENTAL LAB TECHNICIAN



**LENGTH
OF APPRENTICESHIP**
Varies



**MARKET FORECAST
FOR METRO DETROIT AREA**
37 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$18.02
yearly \$37,480

Job Description

A dental lab technician creates dentures, bridges, crowns and orthodontic appliances by following a dentist's written instructions. They work with a variety of materials such as waxes, plastics, precious and non-precious alloys, porcelains and others to fabricate dental restorations and tooth replacements. Dental lab technicians can work in a variety of settings as well as own their own laboratory. They may work in a dental office, dental school, hospital or for a dental manufacturer or supplier.

College 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 Program Director can identify.

College Program

Wayne County Community College

Northwest Campus

8200 W. Outer Drive

Detroit, Michigan 48219

Program Director 248-943-4055

E-mail: jnyquis1@wcccd.edu

Fall enrollment only

CAREER PROGRAM HOTLINE: 1-800-300-2118

DIE MAKER



Job Description

Die makers engrave designs on steel dies that are used to produce textile rollers. They use engravers' hand tools and machines.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

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.

College 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.

College Programs

Henry Ford Community College

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

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326

DIRECT CARE STAFF

**LENGTH
OF APPRENTICESHIP**
1 1/2 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
438 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$10.33
yearly \$21,480

Job Description

Direct care staff care for individuals with developmental or psychiatric disabilities in a licensed group home setting. The direct care staff (DCS) supports individuals with disabilities and others who need assistance to lead self-directed lives and contribute to their communities. The DCS 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.

Apprenticeship 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.

Apprenticeship Programs

Macomb-Oakland Regional Center/Auburn Hills

ATTN: Training Department

1270 Doris Road

Auburn Hills, Michigan 48326

Debbie Smith, Office Manager (248) 276-8031

www.morcinc.org

Macomb-Oakland Regional Center/Clinton Township

15930 Nineteen Mile Road

Clinton Township, Michigan 48038

Debbie Smith, Office Manager (586) 263-8700

www.morcinc.org



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.

Apprenticeship Requirements

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

Apprenticeship Program

Painters Apprenticeship School

14587 Barber Street

Warren, Michigan 48088

Apprenticeship Instructor (586) 552-4481



ELECTRICIAN



Job Description

Electricians layout, 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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Apprenticeship 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).

Apprenticeship Programs

Detroit Joint Apprenticeship and Training Committee

Electrical Industry Training Center

2277 East Eleven Mile Road, Suite #1
Warren, Michigan 48092
Training Director (586) 751-6600
Website: www.ibewlocal58.org

Oakland Community College

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

ELECTRICIAN/INSIDE WIREMAN

**LENGTH
OF APPRENTICESHIP**
5 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
392 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$27.96
yearly \$58,150

Job Description

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

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Detroit Joint Apprenticeship and Training Committee

Electrical Industry Training Center

2277 East Eleven Mile Road, Suite 1
Warren, Michigan 48092
Training Director (586) 751-6600
Website: www.ibewlocal58.org

ELECTRICIAN TELECOMMUNICATIONS INSTALLER TECHNICIAN



Job Description

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

Apprenticeship 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.

Apprenticeship Program

Detroit Joint Apprenticeship and Training

Committee Electrical Industry Training Center

2277 East Eleven Mile Road, Suite 1

Warren, Michigan 48092

Training Director (586) 751-6600

Website: www.ibewlocal58.org

ELECTRICIAN/RESIDENTIAL WIREMAN

**LENGTH
OF APPRENTICESHIP**
5 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
392 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$27.96
yearly \$58,150

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Detroit Joint Apprenticeship and Training Committee

Electrical Industry Training Center

2277 East Eleven Mile Road, Suite 1
Warren, Michigan 48092
Training Director (586) 751-6600
Website: www.ibewlocal58.org

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.

Apprenticeship 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.

Apprenticeship Program

Elevator Constructors Local 36

1640 Porter Street
Detroit, Michigan 48216
Union Hall (313) 961-0717

EMERGENCY MEDICAL TECHNICIAN (EMT)/FIREFIGHTER PARAMEDIC

LENGTH OF APPRENTICESHIP Varies	MARKET FORECAST FOR METRO DETROIT AREA 118 annual openings	WAGES FOR METRO DETROIT AREA hourly \$15.72 yearly \$32,690
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Job Description

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

College 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 program, which may require additional qualifications that the Program Coordinator can identify.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Oakland Community College

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

FORGING MACHINE SETTER

**LENGTH
OF APPRENTICESHIP**
3 to 4 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
33 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$26.74
yearly \$55,630

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.

College 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.

College Programs

Macomb Community College

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

Oakland Community College

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

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.

Apprenticeship 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.

Apprenticeship Program

Glaziers Apprentice School

14587 Barber Street

Warren, Michigan 48088

Apprenticeship Coordinator (586) 552-4483

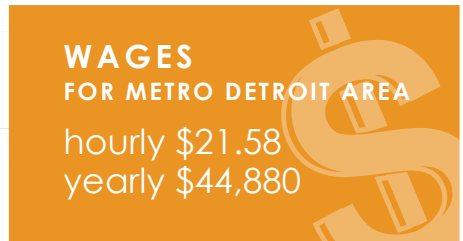
HEAT & FROST INSULATOR GREEN ENERGY MOVEMENT



**LENGTH
OF APPRENTICESHIP**
4 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
54 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$21.58
yearly \$44,880

Job Description

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

Apprenticeship 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).

Apprenticeship Program

Heat & Frost Insulators, Local 25 Joint Apprentice Training Center

21353 Bridge Street

Southfield, Michigan 48033

Apprentice Coordinator (248) 352-1850

E-mail: asbwrks25@aol.com

HEATING, AC, AND REFRIGERATION MECHANIC AND INSTALLER

LENGTH OF APPRENTICESHIP
4 years

MARKET FORECAST FOR METRO DETROIT AREA
143 annual openings

WAGES FOR METRO DETROIT AREA
hourly \$23.28
yearly \$48,420

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



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.

Apprenticeship 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.

Apprenticeship Program

Iron Workers Apprenticeship School

50490 W. Pontiac Trail

Wixom, Michigan 48393

Kevin McDonell, Apprentice Coordinator

(248) 960-2130

www.ironworkers25.org

LANDSCAPE TECHNICIAN

**LENGTH
OF APPRENTICESHIP**
2 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
299 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$11.42
yearly \$23,750

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.

College 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.

College Program

Oakland Community College

2900 Featherstone Road

Auburn Hills, Michigan 48326

Apprentice Coordinator (248) 232-4394



MACHINE REPAIRER



Job Description

Machine repairers fix, 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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



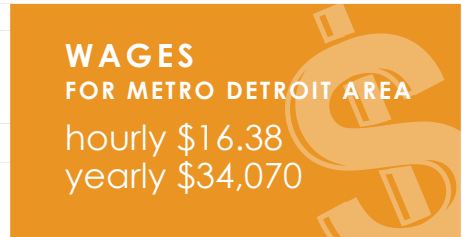
MEDICAL TRANSCRIPTIONIST



**LENGTH
OF APPRENTICESHIP**
2 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
14 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$16.38
yearly \$34,070

Job Description

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

College 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.

College Program

Note: Program internship required.

Oakland Community College

2900 Featherstone Road

Auburn Hills, Michigan 48326

Apprentice Coordinator (248) 232-4394

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Millwrights 1102 Apprenticeship and Training

27555 Mound Road
Warren, Michigan 48902
Director (586) 573-4660
www.millwrightstraining.com

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.

Apprenticeship 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.

Apprenticeship Program

Operating Engineers Joint Apprenticeship Training Fund, Inc. (JATF)

275 E. Highland Road

Howell, Michigan 48843

John Hartwell, Apprentice Coordinator (517) 546-9610

www.oe324jatf.org

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.

Apprenticeship Requirements

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

Apprenticeship Program

Painters Apprentice School

14587 Barber Street

Warren, Michigan 48088

Coordinator (586) 552-4481

PHARMACY ASSISTANT/TECHNICIAN



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.

College 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 Program Coordinator can identify.

College Programs

Henry Ford Community College

5101 Evergreen
Dearborn, Michigan 48128
Program Coordinator (313) 317-6548
or (313)-845-9877

Macomb Community College

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

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326
Program Coordinator (248)-233-2917

Apprenticeship Requirements

Adult applicants must be a high school graduate or a GED recipient and 18 years of age or older. The Program Coordinator can identify any additional requirements.

Apprenticeship Program

CVS Pharmacy/Wayne County Community College Regional Learning Center

5901 Conner
Detroit, Michigan 48213
Manager (313) 267-4070



PHYSICAL THERAPY ASSISTANT



Job Description

Physical therapy assistants work with physical therapists to provide 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.

College 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 program, which may require additional qualifications that the Program Coordinator can identify.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



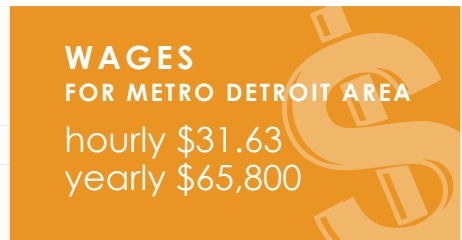
PIPEFITTER



**LENGTH
OF APPRENTICESHIP**
5 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
105 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$31.63
yearly \$65,800

Job Description

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

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Pipefitting Industry Training Center

636 Executive Drive
Troy, Michigan 48084
(248) 585-0636 (Director of Training)
www.pipefitters636tc.org

PLASTERER



Job Description

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

Apprenticeship Requirements

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

Apprenticeship Program

Plasterers Local 67 – Business Office

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

School located at

5555 Cogswell
Wayne, Michigan 48184



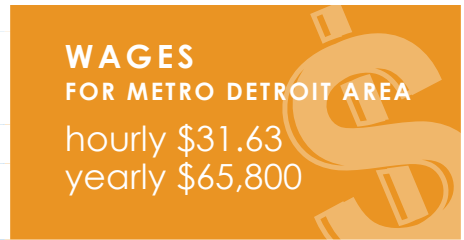
PLUMBER



LENGTH OF APPRENTICESHIP
5 years



MARKET FORECAST FOR METRO DETROIT AREA
105 annual openings



WAGES FOR METRO DETROIT AREA
hourly \$31.63
yearly \$65,800

Job Description

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

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

Apprenticeship 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.

Apprenticeship Program

Plumbing Industry Training Center

1911 Ring Drive
Troy, Michigan 48083
Director of Training (248) 585-1435
www.ualocal98.org

RENEWABLE ENERGY/ALTERNATIVE ENERGY TECHNICIAN GREEN TECHNOLOGY

 LENGTH OF APPRENTICESHIP N/A	 MARKET FORECAST FOR METRO DETROIT AREA No data available	 WAGES FOR METRO DETROIT AREA No data available
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Job Description

The renewable energy/alternative energy sector includes careers that relate to developing and using such energy sources as solar, wind, geothermal and biomass. This sector also includes traditional, non-renewable sources of energy undergoing significant green technological changes (e.g., oil, coal, gas, and nuclear).

Note: While not the traditional apprenticeship program, this course is structured to lead to an apprenticeship. In some cases there are up to 576 contact hours with an employer who designs the curriculum. The Energy Technology - Renewable Energy Advanced Certificate, Energy Technology - Renewable Energy Basic Certificate, and Energy Technology/Alternative Energy Associate in Applied Science degree are designed to introduce students to the new emerging fields of Renewable/Alternative Energies. These programs expose individuals to the many new jobs that are opening in this field and that relate to different types of non-traditional energy efficient power generation, heating and cooling, alternative automotive propulsion, "Green" construction and energy related savings through better usage and design. These programs are not engineering programs; instead they are general technical career/general education programs that focus on exposure to renewable/alternative energies.

College 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 program, which may require additional qualifications that the Program Coordinator can identify.

College Programs

Henry Ford Community College

5101 Evergreen
Dearborn, Michigan 48128
(313) 317-1550
glaskowsky@hfcc.edu

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093
Earl Hartman (586) 445-7519 or
Lisa Richter (586) 445-7191

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.

Apprenticeship Requirements

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

Apprenticeship Program

Roofers Local 149/SMRCA Apprenticeship School

10621 Capital

Oak Park, Michigan 48237

Brian Gregg, Coordinator (248) 543-3847

Website: www.detroitroofers.org



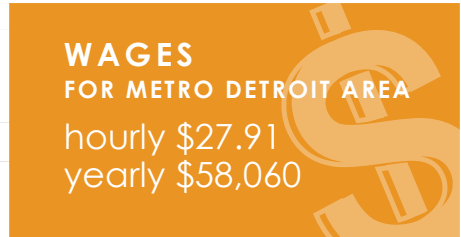
SHEET METAL WORKER



**LENGTH
OF APPRENTICESHIP**
5 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
66 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$27.91
yearly \$58,060

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Apprenticeship 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 and clicking on Entrance Exam.

Apprenticeship Programs

Sheet Metal Workers Local 80 Training Center

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

Sheet Metal Workers Local 292 Training Center

64 Park Street Suite 200
Troy, Michigan 48083
Coordinator (248) 589-2402
Website: www.sheetmetal292.com

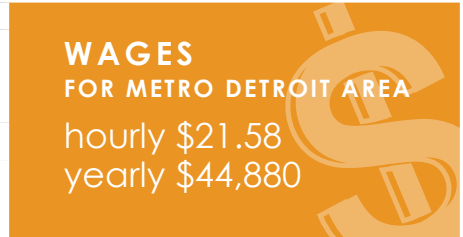
SPRINKLER FITTER



**LENGTH
OF APPRENTICESHIP**
5 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
54 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$21.58
yearly \$44,880

Job Description

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

Apprenticeship 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.

Apprenticeship Program

Sprinkler Fitters Apprenticeship School

32500 West Eight Mile Road

Farmington, Michigan 48336

Kevin Hill, Training Director (248) 473-8259

www.local704.com

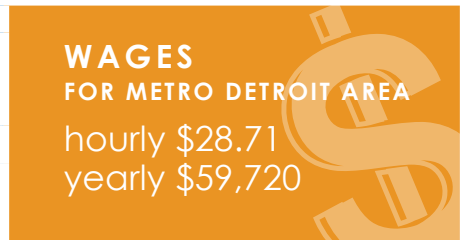
TILE, MARBLE AND TERRAZZO MASON



**LENGTH
OF APPRENTICESHIP**
4 years



**MARKET FORECAST
FOR METRO DETROIT AREA**
31 annual openings



**WAGES
FOR METRO DETROIT AREA**
hourly \$28.71
yearly \$59,720

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.

Apprenticeship 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.

Apprenticeship Program

BAC Local 1, Michigan Joint Apprenticeship

Training Center

21031 Ryan Road

Warren, Michigan 48091

Tom Ward, Apprentice Coordinator (586) 757-6668

E-mail: tom.ward@bricklayers.org

www.bricklayers.org

Click on the IMI Training Tab

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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

VETERINARY TECHNICIAN

LENGTH OF APPRENTICESHIP Call college	MARKET FORECAST FOR METRO DETROIT AREA 30 annual openings	WAGES FOR METRO DETROIT AREA hourly \$16.23 yearly \$33,760
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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.

College 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 program, which may require additional qualifications that the Program Coordinator can identify.

College Programs

Macomb Community College

14500 East Twelve Mile Road
Warren, Michigan 48093
Program Coordinator (586) 286-2096 or
(586) 286-2073

Oakland Community College

2900 Featherstone Road
Auburn Hills, Michigan 48326
Health Technology Office (248) 233-2916



WELDER

**LENGTH
OF APPRENTICESHIP**
4 years

**MARKET FORECAST
FOR METRO DETROIT AREA**
125 annual openings

**WAGES
FOR METRO DETROIT AREA**
hourly \$19.81
yearly \$41,190

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.

College 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.

College Programs

Henry Ford Community College

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

Macomb Community College

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

Mott Community College

1401 East Court Street
Flint, Michigan 48503
Apprentice Coordinator (810) 762-0224

Oakland Community College

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



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. They refer applicants to services such as vocational counseling, literacy or language instruction, transportation assistance, vocational training and child care as needed. They conduct workshops and demonstrate the use of job listings to assist applicants with skill building; informing applicants of job openings and relevant details such as duties and responsibilities, compensation and schedules. They 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.

College 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.

College Program

Oakland Community College

2900 Featherstone Road

Auburn Hills, Michigan 48326

Apprentice Coordinator (248) 232-4394



SECTION IV

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 full-time employee and continues his/her education at a community college or an apprenticeship school.

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

Oakland County

Oakland Schools

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

St. Clair County

St. Clair County Regional Educational Service Agency

499 Range Road
P.O. Box 1500
Marysville, Michigan 48040
(810) 455-1010

Wayne County

William D. Ford Career-Technical Center

36455 Marquette Avenue
Westland, Michigan
(734) 419-2116

SECTION V

GLOSSARY OF KEY TERMS

Brief definitions for key terms used throughout this guide 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.

Workforce Development Agency, State of Michigan (WDASOM)—Among its other responsibilities, the WDASOM 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 VI

ACKNOWLEDGEMENTS

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Richard H. Waclawek, Director

Workforce Development Agency, State of Michigan

Christine Quinn, Director

Michigan Economic Development Corporation

Office of Talent Development Services

Gary Clark, Director

Pure Michigan Talent Connect

Jacqui Mieksztyn, Talent Intelligence & Partnership Manager

Management and Unions Serving Together (MUST)

Oakland County Workforce Development Board

Oakland County

Oakland County Executive L. Brooks Patterson
Deputy Oakland County Executive Matthew Gibb
Irene Spanos, Director, Department of Economic Development & Community Affairs
Stephen Huber, Marketing and Communications Officer
Judith Cunningham, Oakland County Corporation Counsel
Joellen Shortley Blaszcak, Financial Attorney, Oakland County Corporation Counsel
Bill Mullan, Oakland County Media & Communications Officer

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

Oak Park Michigan Works! Service Center

Mona DeFrancesco, Director

Funded by

Workforce Development Agency
State of Michigan
Christine Quinn, Director

Oakland County Workforce Development Board

Prepared by

Oakland County Department of Economic Development & Community Affairs,
Workforce Development Division
John Almstadt, Manager

Graphic Design, Danielle Gravelle and Pamela Tremble

Additional Information

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

Oakland County's telephone number for the deaf 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 Book should contact:

Oakland County Workforce Development Division
2100 Pontiac Lake Road, Dept. #437
Waterford, Michigan 48328

Telephone: (248) 858-5520

almstadtj@oakgov.com

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L. BROOKS PATTERSON
OAKLAND COUNTY EXECUTIVE

WORKFORCE DEVELOPMENT



SKILLED TRADES ARE A GREAT CAREER CHOICE

Getting the qualifications you need often takes less than a year so training is affordable. And, lots of interesting jobs that pay well are waiting to be filled. Explore more than 100 careers in the skilled trades, find out how to learn a trade and get to know who's hiring at MITradeSchool.org. Oakland County Michigan Works! also can help in finding the right job for you.

Bright futures start at
MITradeSchool.org



AdvantageOakland.com