

Skilled/Building Trades /Union Apprenticeship Information for Southeast Michigan

	Scope of Work
Boilermakers	Construction and repair of utility plants, chemical plants, automotive plants, refineries, paper and steel manufacturing facilities, ore processing and mine plants throughout the State of Michigan. (4 year program) www.boilermakerslocal169.com
Bricklayers & Restoration Workers	Masonry workers, also known as masons use bricks, concrete block, concrete, natural or manmade stones to build structures, partition walls, walkways and other masonry structures. Restoration Masons restore or maintain masonry structures including historic masonry structures. Industrial masons install brick linings or refractory coatings in kilns or furnaces. (4 Year Program) www.bricklayers.org
Carpenters	Carpenters erect a building's wood frame, including subflooring, sheathing, partitions, floor joists, studs and rafters. They install heavy timbers, build forms, erect scaffolding and install molding, wood paneling, cabinets, window sashes, door frames, doors, hardware, build stairs, and lay floors. In addition, as part of their job, carpenters saw, fit and assemble plywood, wallboard and many other materials. (4 year program) www.hammer9.com
Carpenters/Floor Layers	The installation of carpeting, hardwood flooring, soft tiles and linoleum type products made of vinyl and rubber is the work of the floor layers. This is a specialized occupation which is attracting many young men and women. Floor layers install a wide range of decorative floor coverings in commercial buildings, hotels, homes and churches. (4 year program) www.hammer9.com
Carpenters/Lathers	Involves the installation of all sorts of modern equipment and material in commercial buildings, such as acoustical ceilings, raised floors for computers, metal framing, wall partitions, and office furniture systems. (4 year program) www.hammer9.com
Cement Masons	The principal work of Cement Masons is finishing the exposed concrete surfaces on many types of construction projects. These projects range from small jobs, such as the finishing of patios, floors and sidewalks, to work on dams, concrete highways, foundations, walls of buildings, and airport runways. (3 year program) www.bricklayers.org
Construction Craft Laborers	Commercial – the laborer may tend mason, place concrete, work with operators in site preparation, tend carpenters, clean up site. Highway – May lay sewer and water mains, check road grade for operators, place concrete and asphalt, break and remove old concrete. Underground – Works as a pipe layer, tailman, top man while installing sewer, water and gas lines. Industrial Construction – involves all new construction, remodeling and demolition in factory type buildings. (4000 hours of diversified work and no less than 400 hours of related instructional training) www.mltai.org
Drywall Finishers/Tapers	Drywall finishers apply drywall taping compounds and tape to wall surfaces, making a finished wall in preparation for painters, paperhangers, carpenters and tile layers. The finishers use hand tools as well as power tools to apply the drywall compounds and tape to the surface. (3 year program) www.iupatdc1michigan.org
Electrical Workers	Electrical Workers lay-out, assemble, install and test electrical fixtures, apparatus, high voltage, medium voltage and low voltage electrical systems. They also install and connect electrical machinery, equipment, controls, signal and communication systems, fire alarm, instrumentation, security and Audio Visual systems, switches, conduits, circuit breakers, wires, lights and other electrical components. (5 year program) www.detroitetc.org
Glaziers and Glassworkers	Glaziers install glass and aluminum building components in new construction, residential and remodeling projects. (4 year program) www.iupatdc1michigan.org
Industrial Painter (CAS)	Painters prepare the surfaces of buildings and other structures and then apply paint, varnish, enamel, lacquer, and similar materials to these surfaces. A painter must be skilled in handling brushes and other painting tools in order to apply paint thoroughly, uniformly and rapidly to any type of surface. (4 year program) www.iupatdc1michigan.org
Heat and Frost Insulators	Includes application of insulation, wrapping pipes and tanks for heat, frost and condensation insulation in industrial settings, such as factories and power plants. (4 year program) www.asbwrkrs25@aol.com

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Iron Workers	<p>Iron Workers are employed in five segments of the trade, working in commercial, industrial and residential areas: Structural Iron Workers. Assemble, erect and install fabricated iron sections using bolts and by welding. Ornamental Iron Workers. Install metal stairways, cat walks, gratings, iron ladders, metal window sashes, glass, curtain walls, window walls, doors, gates, fences, screens, elevator fronts, platforms and railings. They also install decorative iron work. Reinforcing Iron Workers. Employed wherever reinforced concrete is used in the construction of such things as buildings, freeways, bridges and drainage channels. Rod busters fabricate and place steel bars in concrete forms to reinforce concrete structures.</p> <p>Special Building Erectors. Erect pre-engineered buildings. A pre-engineered building has structural members that are factory built and standardized for ease of construction from one building to another. Rigging and Machinery Movers. Load, unload, move and set machinery, equipment and material using cranes, derricks, forklifts or by hand, utilizing a series of blocks and tackle. Riggers have knowledge of fiber line rope, hooks, skids, rollers, proper hand signals and hoisting equipment. (4 year program) www.ironworkers25.org</p>
Millwrights	<p>The Millwright is a construction mechanic whose skills are in the areas of moving, leveling, aligning and installing large machinery. Also incorporated into the Millwright's scope is rigging, erecting, splicing of belts, cleaning, lubricating and replacing gears, and fabrication and installation of conveyor systems, turbines and generators, automated systems and welding. Millwrights also repair all of the above systems, as well as install them. (4 year program) www.hammer9.com</p>
Operating Engineers	<p>Operating Engineers operate and maintain heavy and portable construction equipment. Work includes operation and maintenance of construction equipment, such as bulldozers, graders, cranes, scrapers, loaders, asphalt plants, rollers and pumps, etc., on all types of projects. The Operating Engineer is generally employed in the building of highways, airports, buildings, sewers, waterways and stadiums. (3 year program) www.oe324jatf.org</p>
Outside Lineman	<p>Outside Linemen primarily do the important work of installing and maintaining the overhead distribution and transmission lines that move electrical power from power plants to local consumers such as businesses, homes and factories. They also install and maintain poles and towers, underground systems and sub-stations that are required to power communities. Outside Linemen are often climbing poles or working in bucket trucks, installing or repairing electrical power lines out-of-doors. (no time frame specified) www.albat.org/v3/</p>
Painters / Decorators	<p>Painters prepare the surfaces of buildings and other structures and then apply paint, varnish, enamel, lacquer, and similar materials to these surfaces. A painter must be skilled in handling brushes and other painting tools in order to apply paint thoroughly, uniformly and rapidly to any type of surface. (4 year program) www.iupatdc1michigan.org</p>
Pipefitters, Refrigeration and Air Conditioning Service	<p>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. (5 year program) www.pipefitters636tc.org</p>
Plumbers	<p>Plumbers alter, repair, maintain and install plumbing systems, plumbing fixtures, appliances, water distribution and waste disposal systems. Plumbers also install medical gas systems in health care facilities. (5 year program) www.plumbers98tc.org</p>
Roofers and Waterproofers	<p>A commercial roofer works on all types of commercial buildings. The commercial roofer installs a variety of roofing materials, generally on flat roofs. The roofs are generally made up of hot tar, hot asphalt, modified bitumen, or rubber membrane. You need to be the kind of person who works hard, and has good ethics, including showing up for work on time, maintaining a positive attitude, and the ability to work as part of a team. The tools and clothing required are very basic. (3 year program) www.roofers149mi.com</p>
Sheet Metal Workers	<p>Sheet Metal Workers make, install and maintain air-conditioning, heating, ventilation and pollution control duct systems; roofs, siding; rain gutters and downspouts; skylights; restaurant equipment; outdoor signs; and many other building parts and products made from metal sheets. They also work with fiberglass and plastic materials. (5 year program) www.smw80jac.org</p>
Tile, Marble and Terrazzo Masons	<p>Tile Setters and Finishers install tile, marble and terrazzo on walls, partitions, fireplaces, swimming pools and other structures. They also use other materials such as cement, epoxy, tile, stone, marble, terrazzo and terra cotta. (4 year program) www.bricklayers.org</p>