

Northeastern Indiana Building & Construction Trades



**Build Your Own Career Path
Learn a Construction Trade**



The future of our cities, hospitals, schools, churches and our nation depends on the construction industry and the youth it trains today to meet the needs and challenges of tomorrow. The guidance counselors of our secondary schools are the source on which the community and the construction industry must rely. They must counsel and advise students toward the educational preparation they must have to enter the largest industry in the world.

What is an Apprentice?

An apprentice is one who learns to become a skilled craftsperson through planned, supervised, on the job work, in addition to related classroom instruction. The apprentice is a regular part of the workforce, which earns high wages, and the apprentice acquires important skills in the process. The apprentice training period of skilled occupations ranges from 4-5 years. An apprentice is taught the proper use, care and safe handling of tools and equipment connected with his work. Classroom work is required in subjects related to the trade which allows the apprentice well-balanced vocational training.

Earn While You Learn

The apprentice earns while learning. The more the apprentice learns, the higher the pay is. Starting pay is at least 50% of a Journeyman's wage, and as the apprentice accumulates an established number of on the job hours, wages are increased at regular intervals. At the end of the term of apprenticeship, the person graduates to Journeyman status and will receive full pay for the skill.

Advancement Opportunities

The Apprentice of today is the foreman, superintendent, and contractor of tomorrow! Once the apprentice advances to journeyman status, the ambitious tradesperson does not need to stop advancing. As the Journeyman improves his or her skills, supervisory positions become available. Advancement, of course, depends on the merits of the individual. Those individuals having extra drive can advance to the positions of job estimator, project superintendent, vice-president and even president of a company.

Training is Good Insurance

Training in the construction trades is good insurance. In addition to opportunities for promotion and steady employment, it gives a lifelong increased earning capacity which will enable one to get and keep a well paying job anywhere in the country. Skilled hands and a trained mind, produce a strong feeling of security.

How to Prepare

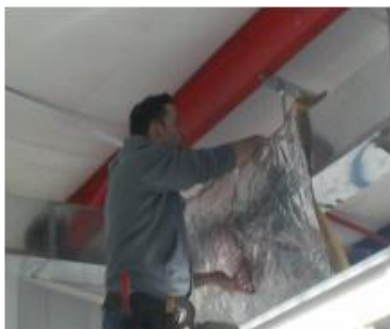
In today's construction industry, most tradespersons are drawn from the ranks of high school graduates. The importance of staying in school cannot be overemphasized, and the smart person will take as many courses as possible in high school that will help them on the path to a successful career after graduation. The following pages offer descriptions of many good career opportunities as well as information on how to prepare for these careers.

Supervision

To assure proper training and progress of the apprentice, both federal and state governments establish rules and regulations which supervise the progress of the trainee. Every apprenticeship program must adhere to regulations and standards which are registered with the Indiana State Employment Service. The Bureau of Apprenticeship and Training and U.S. Department of Labor assist in the formulation of and the carrying out of the standards.

Table of Contents

Asbestos Worker & Insulator	4 & 5
Boilermaker	6 & 7
Bricklayer	8 & 9
Carpenter	10 & 11
Cement Mason	12 & 13
Electrician	14 & 15
Elevator Constructor	16 & 17
Glazier	18 & 19
Iron Worker	20 & 21
Laborer	22 & 23
Millwright	24 & 25
Operating Engineer	26 & 27
Painter	28 & 29
Plasterer	30 & 31
Plumber & Steamfitter	32 & 33
Roofer	34 & 35
Sheet Metal Worker	36 & 37
Sprinkler Fitter	38 & 39
Telecommunications	40 & 41



What An Insulator Does

The Insulator applies, prefabricates, mixes and dismantles different types of insulation. The Insulator removes old asbestos from pipes and vessels.

Working Conditions

An Insulator is exposed to both inside and outside weather conditions and is called upon to work at heights and in small spaces. They must wear suitable clothing for the climate. Training is a must for Insulators as without proper training, it can be a dangerous profession.

Interest and Temperament

A person entering this occupation should be willing to perform work well, take pride in performance and realize responsibilities to fellow workers and the employer.

General Qualifications

- A person 18 years or older may be admitted to membership as an apprentice.
- Minimum education—High School Graduate or GED.
- Good physical condition—must be physically able to perform work of the trade.



Admission Requirements of JAC

- Transcript of High School Records
- Birth Certificate
- Subject to physical, if accepted.
- Length of indentureship—4 years
- Drug Testing
- Valid Drivers License

Terms of Training

- Hours of classroom instruction—176 hours
- Length of probationary period—800 hours
- Courses are college credit applicable

Available Applications

Applications are available on the 1st and 3rd Monday of the month (regular business day) from 8:00 a.m. until 4:00 p.m. from Local #41 Asbestos Workers & Insulators Office located at:

Insulators Local #41
3626 N. Wells Street
Fort Wayne, Indiana 46808

Ryan Wiersema—Representative
Telephone: (260) 484-2834

What a Boilermaker Does

A Boilermaker is a highly skilled tradesman who erects and maintains various types of pressure vessels. These vessels include small boilers in schools and hospitals, coal fired boilers in power generation plants, blast furnaces and basic oxygen furnaces in the steel industry, precipitators and scrubbers which clean the exhaust from these furnaces and boilers, and numerous other tanks and pressurized containment vessels in industrial plants. Welding, burning, heavy and high rigging, and layout work are the most important skills a Boilermaker needs to perform his job.

Working Conditions

A Boilermaker works primarily in plants that are considered heavy industrial. Steel mills, power generation plants for utilities, chemical plants, refineries, and paper mills are just a few of the industries that Boilermakers and their contractors service. These plants can also pose dangerous working conditions so safety training is constantly taught and reviewed by the union, the contractor, and the owner. This tripartite alliance has proved very successful in minimizing lost time accidents.

Interest and Temperament

Persons interested in becoming Boilermakers need to be able to follow instructions from the foreman. They must not be afraid of heights or be claustrophobic, and can occasionally expect to work the night shift. Most maintenance in heavy industry is performed around the clock.

General Qualifications

- Age 18 or older.
- Minimum education—high school graduate or GED.
- Must pass a drug screening test at an approved testing site.
- Must be of good physical condition to perform the work required.

Admission Requirements of JAC

Applicants are later contacted to take a written aptitude and general scholastic skills test which is administered under the guidelines set by the U.S. Department of Labor.

Terms of Training

- Length of indentureship—4 years.
- Classroom work and home studies are required along with on the job training.

Recommended High School Courses

General Math, Geometry, Mechanical Drawing, and Welding.

Available Applications

Applications are accepted once every month on predetermined dates and locations.

Visit us on the web www.local374.org

What a Bricklayer Does

The work of the modern Bricklayer touches almost all aspects of building—industrial and commercial building, apartments and homes. A Bricklayer constructs walls, partitions, fireplaces, chimneys and other structural forms from brick or other masonry materials such as firebrick, concrete, cinder or gypsum block, structural tile, terra cotta, ceramic tile, terrazzo, and stone. They work with any materials put together with mortar using the trowel, chisel, jointer, brick hammer for cutting bricks and power brick cutting saws. They understand and work from blueprints. They also use measuring, leveling and aligning tools to check their work.

Working Conditions

Much of the work is out of doors and generally depends on suitable weather conditions. Modern construction methods along with heater and plastic enclosures stretch the season for bricklaying construction making it less dependent on good weather. Bricklayers are on their feet all day and do considerable stooping and bending. At times, work is done from scaffolding which may be high above the ground.

Interest and Temperament

A person interested in this field would be involved in a variety of duties requiring fairly close tolerances, limits, or standards. Bricklaying requires careful, accurate work by the craftsman. To be a Bricklayer, one should enjoy working with one's hands and accept working outside under many different weather conditions. Good eyesight is especially important to quickly determine lines and level. Manual dexterity is also important.

General Requirements

- Age 18 or older.
- Good physical condition—must be physically capable of performing the work of the trade.
- American citizenship or declaration of intent.
- High School Diploma or GED with background in Math.
- Valid driver's license.





Admission Requirements of JAC

Applicant may be required to furnish a statement of physical condition.

Terms of Training

- Length of Apprenticeship—4 years.
- Minimum hours of related classroom training—144 each year.
- Indentured to the Joint Apprenticeship Committee and assigned to a local union.
- Length of probationary period—6 months.

Recommended High School Courses

General Math, Algebra I, Geometry, Mechanical Drawing

Available Applications

BAC Local 4 IN/KY Apprenticeship Programs

7301 Decatur Rd.

Fort Wayne, IN 46816

Dan Flores

574-320-6369

Brick - Refractory

Glenn Head

260-447-7807

Tile - Terrazzo



Application available online.

Please visit www.baclocal4.org for more information.

What A Carpenter Does

The Carpenter is probably the most widely known of the building trades crafts-person for two reasons: Carpenters are members of the largest group of building trades workers and are employed in almost every type of construction activity. Carpenters cut, shape, fasten wood and similar materials. They erect wooden framework in buildings including sub-flooring, partitions and rafters. They install molding, wood paneling, cabinets, window sashes, door frames, and doors and hardware, as well as build forms for concrete work, building stairs and laying floors. They use a wide variety of power and hand woodworking tools.

Working Conditions

Since much of the work is done outdoors, working conditions are governed by the weather. The Carpenter does a great deal of standing, lifting, carrying and stooping—some climbing and balance which varies with the job and the particular assignment. Many hazards exist; including possible severe cuts and the possibility of falls.



Interest and Temperament

The Carpenter should enjoy doing precise work and should have pride in their craftsmanship. They must be able to work without close supervision and be able to adapt to a wide variety of working conditions.

General Qualifications

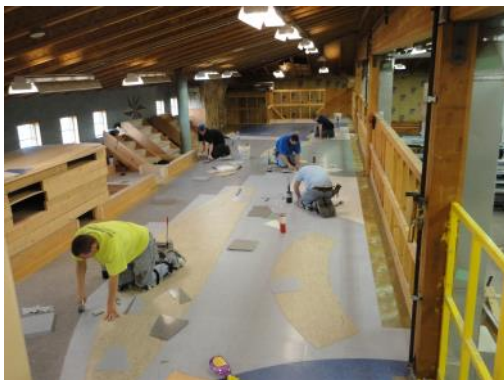
- Age—18 or older.
- Minimum education—high school graduate or equivalent.
- Good physical condition—must be able to perform the work of the trade.
- Manual dexterity and the ability to solve arithmetic problems quickly and accurately.
- Must be able to pass drug screen.

Admission Requirements of JAC

- Transcript of high school records and diploma or GED and test scores.
- Government issued photo ID.
- Written examination by the Joint Apprenticeship Committee.
- Personal Interview.
- Pre-job training—one week.

Terms of Training

- Length of indenture—4 years.
- Minimum hours of related classroom instruction—160 each year.
- Indentured to the Joint Apprenticeship Committee and assigned to a contractor employer of carpenters.
- Length of probationary period—180 days.
- Associates Degree from Ivy Tech Community College.



Recommended High School Courses

Advanced Math, Algebra I, Geometry, Mechanical Drawing, Trigonometry, General Science, and computer skills.

Available Applications

IN/KY/OH Regional Council of Carpenters JATF
1095 Mariners Drive
Warsaw, Indiana 46582



Telephone: (877) 967-5264 at
Warsaw.

Applications may be obtained 7:00
a.m.—3:30 p.m. by appointment.

What a Cement Mason Does

The primary work of the Cement Mason is finishing the exposed concrete surfaces on many types of construction projects. These projects range from small jobs such as finishing patios, floors, and sidewalks to working on commercial, industrial and public buildings and miles of highways and airport landing sites.

The Cement Mason levels, smooths and shapes surfaces of freshly poured concrete. Although they are involved in home building with driveway, sidewalk and basement work, the bulk of their work is commercial and industrial building.

They also set forms in which the concrete is poured. Their basic tools are the straight-edge, trowel, bull float, hand float, edgers, jointers, hammers, hand saws, spirit levels and power trowels.

The Cement Mason's knowledge of trade materials is essential to the quality of work. The skilled Mason must know the working characteristics of various cement and concrete mixes. In addition, because of the effects that heat, cold, and wind have on the curing of cement, the skilled Mason must recognize by sight and touch that which is occurring in the cement mixture to prevent defects.



Working Conditions

Since most of the work is done outdoors, working conditions are governed by the weather. The work is active and strenuous with most of the work done on the ground or the floor level. The worker is required to stoop, bend, or kneel. Cement Masons work under more pressure, probably, than any other building tradesperson. Once the cement is poured, it must be worked before it sets regardless of the time of day or climatic conditions.

Interest and Temperament

Persons entering this occupation should receive satisfaction of tangible results from a job well done. They must be able to work without close supervision and be able to adapt to a wide variety of working conditions. They must be willing to stay on the job until it is finished once the cement is poured.

General Qualifications

- Age—18 years or older.
- Minimum education—High School Graduate or equivalent.
- Good physical condition—must be physically able to perform work of the trade.
- Manual dexterity.

Admission Requirements of JAC

- Transcript of High School records
- Birth Certificate
- Subject to physical, if accepted.
- Drug Testing
- Valid Drivers License
- Personal Interview.



Terms of Training

- Length of indentureship—3 years.
- Minimum hours of related classroom instruction—144 each.
- Indentured to the Joint Apprenticeship Committee and assigned to a signatory contractor.

Recommended High School Courses

General Math, Algebra I, Geometry, Mechanical Drawing.

Available Applications

Kevin Wildes
Plasterers & Cement Masons Local 692
2802-H Congressional Parkway
Fort Wayne, Indiana 46808

Telephone: (260) 437-1842

Call for an appointment.



What an Electrician Does

The Electrician lays out, installs and tests electrical fixtures, and installs electrical wire systems, systems used to provide heat, light, power, air conditioning and refrigeration in homes, office buildings, factories, hospitals, and schools. An Electrician also installs conduit, greenfield and other materials, and connects electrical machinery, equipment and controls in high-rise buildings and installations. Electricians may be required to work at great heights; or may be required to dig deep trenches and cuts for underground installations. The electrical trade is unique in that it is mechanical, technical, and professional. It must select individuals who have a natural aptitude for using tools, and who are gifted enough to master the intricacies of electrical science. They must keep up with the progress of the industry and master a knowledge of the thousands of installation and maintenance procedures.

Working Conditions

In new construction, electricians move onto the job as soon as the structure begins to take form, installing ground and temporary lights and power. The work is active and strenuous with much of the work done in awkward positions and frequently in cramped quarters. They must do considerable standing, reaching, bending, stooping, climbing and carrying and lifting in order to install electrical conduit and equipment. They must wear protective clothing to guard against the hazards of working with electricity. They may work in all kinds of weather. The work is interesting and diversified. Electricians may be called upon to work in new and old buildings, new and old homes and also commercial and industrial construction.

Interest and Temperament

A person interested in becoming an electrician must enjoy working with math problems and be able to work in fairly close tolerances. The electrical industry, by its very nature, places a high degree of personal responsibility on the individual journeyman. While supervision is provided on many jobs, the electrician is often called upon to make decisions regarding the best and safest method of installation to produce a given result.

General Qualifications

- Age—18 or older.
- Minimum education—high school graduate or GED.
- One full credit of Algebra
- Valid Driver's License.
- Good physical condition—must be able to perform work of the trade.

Admission Requirements

- Qualified score on Aptitude test.
- Personal interview.
- Must pass physical exam and drug test.

Terms of Training

- Length of indentureship—5 years.
- Minimum hours of related classroom instruction—180 hours.
- Indentured to the Joint Apprenticeship & Training Committee and assigned to an electrical contractor.
- Length of probationary period—12 months or 2000 hours.
- The term of apprenticeship shall not be less than 8000 hours of employment.

Recommended High School Courses

General Math, Algebra (1 full credit), Geometry, General Science, Trigonometry.

Available Applications

Electricians' Joint Apprenticeship & Training Committee
138 Chambeau Road
Fort Wayne, Indiana 46805

Telephone: (260) 483-6257

Applications accepted Monday—Friday, 8:00 a.m.—4:00 p.m.

What an Elevator Constructor Does

An Elevator Constructor is responsible for assisting in the installation, maintenance and repair of the passenger and freight elevators, escalators, dumb-waiters and moving sidewalks.

Working Conditions

The Elevator Constructor manually loads, unloads, and moves materials, equipment and tools from vehicles to work areas sometimes requiring lifting parts weighing up to 100 pounds. They clean elevator car tops, machine rooms, pits, rails and hoistways within non-controlled climate field setting. The Elevator Constructor paints machine rooms and pits. Uses periods of high concentration and knowledge of elevator systems to assist in electrical and mechanical installation, repair or service operations. Requires following written or oral directions and color perception to distinguish color-coded wiring components. He also maintains elevator lighting fixtures and visually and audibly monitors equipment operation to determine faulty functioning. Requires ability to withstand heights and cramped working conditions.

Interest and Temperament

Elevator Constructors must have the ability to perform essential job functions in the field setting with exposure to non-controlled climate conditions and have the ability and willingness to withstand heights and work in cramped working conditions. He also must have the ability to use hands, arms and feet for repetitive lifting and to operate various hand and power tools and to record written information. The Elevator Constructor also must have the ability and willingness to travel up to 95% of the time.





General Qualifications

- Age—18 years or older.
- Minimum education—high school diploma or GED.
- Physically fit for the work of the Trade
- Ability to communicate verbally.
- Ability to perceive color.
- Valid driver's license.

Admission Requirements of JAC

- Qualified score on aptitude test.
- Personal interview.
- Must pass physical exam and drug test.

Terms of Training

- Length of indentureship—5 years.
- Minimum hours of related classroom instruction—144 hours
- Indentured to the Joint Apprenticeship & Training Committee and assigned to an elevator contractor.
- Length of probationary period—12 to 18 months or 12 one hundred hour months.
- The term of apprenticeship shall not be less than 8000 OJT hours.

Recommended High School Courses

General Math, Algebra, Geometry, General Science and Shop

Available Applications

National Elevator Industry Educational Program

Telephone: (248) 451-9266

What A Glazier Does

A Glazier lays out, fabricates, erects, and installs glass, aluminum window systems, aluminum curtain and window wall systems, aluminum entrances, skylights, mirrors and raw glass settings in custom framing materials.



This work is primarily performed in stores, office buildings, factories, hospitals, and schools, with some work on residential structures, in high-rise buildings and on skylights. Glaziers may be required to work at great heights. The Glazier uses many hand tools and power tools in the completion of this work.

Working Conditions

A Glazier moves onto a job site after the structure's walls have been formed and the roof is in place. Most of the work is done outside, so work is governed by the weather. Most of the work is achieved off of work platforms, scaffolding, or stages, so safety is of paramount importance and the Glazier must insure their own safety, as well as the workers around them. The Glazier does a large amount of lifting, carrying, climbing and work from ladders.

Interest and Temperament

The potential Glazier should appreciate fine craftsmanship and have the desire to work within close tolerances with great accuracy. Most work is performed without close supervision. The Glazier should not have a fear of heights.



General Qualifications

- Age 18 or older.
- Minimum education—high school diploma or GED.
- Good physical condition—must be able to perform the work of trade.

Admission Requirements of JAC

- Completed application.
- High School Diploma or GED
- Pass Drug Test
- Personal interview

Terms of Training

- Length of indentureship—6000.
- Qualification test.
- Classroom training provided and required.

Available Applications

Kenny Hayes
International Union of Painters & Allied Trades
8364 Minnesota St
Merrillville, IN 46410
(219) 781-7295





What an Iron Worker Does

The Iron Worker is a craftsman who fabricates, erects, assembles and installs fabricated structural metal products, usually large steel beams, in the erection of industrial, commercial or large residential buildings. The Structural Iron Worker erects the steel framework of bridges, buildings and other structures including metal storage tanks and overhead crane runways that support heavy equipment. The Reinforcing Iron Worker (rodman) sets steel bars of steel mesh in concrete forms to strengthen concrete in buildings and bridges. The Ornamental Iron Worker installs metal stairways, catwalks, gratings, grills, screens, fences and decorative iron work.

Working Conditions

With the exception of some ornamental ironwork, remodeling and repair work, and the occasions where temporary shelters can be set up, most of the work is done out of doors. Most iron work can be carried on year round except in instances of very severe weather. Because an Iron Worker risks injury, such safety devices as nets, safety belts, and scaffolding are used. An Iron Worker does a great deal of climbing, balancing, and reaching.

Interest and Temperament

An Iron Worker must receive satisfaction from tangible productive results and must be able to work to prescribed close tolerances and rigid standards. Naturally, a person cannot be afraid of working in high places. A person desiring to enter into this type of work should be able to understand detailed written and verbal instructions.



General Qualifications

- Age—18 years or older.
- Minimum education—high school graduate or equivalent.
- Good physical condition—since the materials used in the Iron Working trades are heavy and bulky, above average physical strength is necessary. Agility and a good sense of balance are also required.
- American citizenship.

Admission Requirements of JATC

- Valid Driver's License
- Aptitude Test
- Must pass a drug test

Terms of Training

- Length of indentureship—4 years.
- Minimum hours of related classroom instruction—215 hours each year.
- Indentured to the Joint Apprenticeship Committee and assigned to a general contractor or a contractor employer of Iron Workers.
- Length of probationary period—6 months.

Recommended High School Courses

Drafting, Welding, Industrial Arts, General Math, Algebra, Science

Available Applications

Iron Workers Local 147
1211 West Coliseum Blvd.
Fort Wayne, Indiana 46808

Telephone: (260) 484-8514
Contact the Union Hall for information
about the Apprenticeship Program.



What a Laborer Does

A Laborer must have a common knowledge of all work performed by building tradespersons because the Laborer is the tender in the industry. Laborers are called upon to operate and maintain power tools such



as the chain saw, tamping machine, concrete vibrator, chipping hammer, cutting and burning, demolition, and the use of explosives, mixing for and tending of brickmasons & plasterers, installing sewers, cribbing and sheeting.

Working Conditions

A Laborer is exposed to all weather conditions and is called upon to work at heights and also depths hundreds of feet underground on subways, tunnels and storage reservoirs. Laborers must wear clothing suitable to the climate, for working in water and heat. Because Laborers are required to work under undesirable and sometimes hazardous conditions, they must develop good safety habits.

Interest and Temperament

Every Laborer must have a broad knowledge of safety for self and co-workers' protection. A person entering this occupation should be willing to perform work well, take pride in performance and realize responsibilities to fellow workers and employer.

General Qualifications

- Age—18 years or older. Proof of age may be required.
- High School Diploma—if applicant has not completed high school or its equivalent, the applicant must, if accepted into the program, pursue his or her GED within the first year of the program.
- Good physical condition—must be able to perform the work of the trade.
- Manual dexterity.
- Drug test will be required.
- Possess a current driver's license.



Admission Requirements of JAC

Personal interview, must bring high school diploma, birth certificate, driver's license, and social security card with you to interview.



Terms of Training

- Length of indentureship—4000 hours (4 years)
- Four weeks off-site using tools and developing skills per year at the Indiana Laborer's Training site
- 1,000 hours of on-job training is required.
- 160 hours of training at Indiana Laborers Training Site per year.
-

Recommended High School Courses

General Math, Mechanical Drawing, Blue Print Reading, Small Engine Repair, Welding, Wood Shop.

Available Applications

Laborers' Local 213
5700 S. Anthony Blvd.
Fort Wayne, Indiana 46806

Telephone: (260) 744-5255
Fax: (260) 745-7601
Email: Local213@frontier.com





What a Millwright Does

A Millwright installs and performs maintenance on all types of machinery, performs tasks necessary to prepare machinery for use in production, and installs all types of overhead conveyors (monorails and belt conveyors). A Millwright works from blueprints and uses all types of tools including optical and precision tools. A Millwright works in a wide variety of industrial and commercial facilities and often performs maintenance type of work.

Working Conditions

A Millwright should be in good physical condition as there is a lot of lifting, carrying, pushing or pulling, crouching, reaching and using hands.

General Qualifications

- A personal 18 years or older may be admitted as an apprentice.
- High School Diploma or GED - transcripts or GED test scores.
- Good physical condition—must be physically able to perform work of the trade.
- Able to pass drug screen.
- Mechanically inclined.

Admission Requirements of JAC

- High School Diploma or GED.
- Transcript of High School Records or GED Test Scores.
- Government Issued Photo ID.
- Personal Interview.
- Pre-job Training—One week.

Terms of Training

- Length of indentureship—4 years.
- Hours of classroom instruction—160 hours.
- Length of probationary period—180 days.
- Associates Degree from Ivy Tech Community College.

Recommended High School Courses

Machine Shop, Welding & Cutting, Advanced Math, Algebra, Geometry, Trigonometry, Mechanical Drawing, General Science, Computer Skills.

Available Applications

IN/KY/OH Regional Council of Carpenters JATF
1095 Mariners Drive
Warsaw, Indiana 46582

Applications may be obtained 7:00 a.m.—3:30 p.m. by appointment.

Telephone: 1-877-967-5264



What An Operating Engineer Does

Operating Engineers are the persons who operate and maintain various types of power driven construction machines, such as bulldozers, cranes, pumps, pile drivers, asphalt and concrete plants, derricks, rollers, graders, pavers and tractors which dig, scrape, and move great amounts of earth and hoist building materials. Some machines require the operators to turn valves, adjust hand wheels and press pedals to drive the machines and control the attachments. Other machines such as cranes, require the constant use of both hands and both feet. Operating Engineers may also be required to service their machines and move the machines from one construction site to another.

Working Conditions

Operating Engineers should enjoy working with machines and equipment and be mechanically inclined. They must be able to do routine, repetitive work and work either as a team on large projects or work alone. They should be able to withstand the jolting and vibration of the machines and must have an interest in and the ability to learn correct methods of handling the powerful equipment in a safe manner. The job demands good eyesight, muscular coordination and depth perception.

Interest and Temperament

All work is performed in the open, except for a few machines equipped with enclosed cabs. Earth-excavating and grading equipment operators and road building equipment operators generally work from early spring until the fall freeze and shut down only when it rains. The work might be dusty and dirty and they may have to travel long distances to work.

General Qualifications

- Age—not less than 18 years of age.
- Possess a valid drivers license
- Physically fit for the work of the trade

Admission Requirements of JAC

- Application.
- Drug Test.
- High School Diploma or GED Certificate.
- Military Service Record of honorable discharge (if applicable).

Terms of Training

- Length of indentureship—6000 hours
- Minimum hours of related classroom instruction—144 hours each year.
- Indentured to Joint Apprenticeship Committee.
- Length of probationary period—1,000 hours.

Available Applications

Operating Engineers Apprenticeship and Training Program
4277 East County Road 67
Anderson, Indiana 46017
Phone: (765) 378-0013
Randy Ratican—Apprenticeship Administrator

Applications are accepted on a daily basis



What A Painter Does

The art of painting has been with us since the dawn of history.

From the time man first learned that colored material dissolved in liquids could be used to decorate his dwellings, his possessions, and his body, painting has been an important factor in the development of civilization. Painting

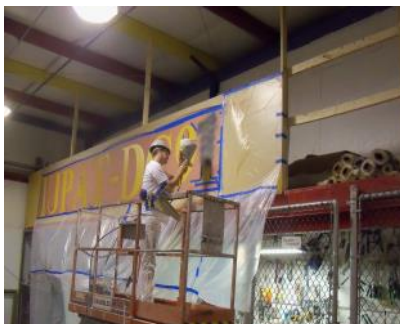
today serves many purposes besides decoration. Modern chemical plants product paints for the protection of almost any material against any type of weather or chemical corrosion. Today's Painter must know how to prepare the surfaces of building and other structures, how to apply paint, varnish, lacquers, shellac and similar materials to the surfaces. The Painter uses three major tools to apply coatings—brush, spray gun and roller. The skilled Painter knows which one is best for each job. A Painter also erects scaffolds, ladders, and safety barriers.



Working Conditions

A Painter works both indoors and out. Outside work is done in relatively mild weather. In some jobs, especially maintenance and redecorative, the Painter may be required to work evenings or weekends. Work is seasonal; however, new materials and methods tend to give more steady employment throughout the year. Physical and health hazards include the dangers of poisoning, falling from ladders and scaffolds, breathing paint fumes and dust. Of course, following reasonable safety rules reduces these dangers. The work involves standing, bending, climbing and working with arms over the head.

Interest and Temperament



The Painter must have manual dexterity as well as steady nerves to work in high places. They should not be allergic to or bothered by paint fumes, toxic materials and spray dust. A Painter should have a certain artistic sense in order to do a first class painting job. Good eyesight is a requirement.

General Qualifications

- Age 18 or older.
- Minimum education—high school graduate or equivalent.
- Good physical condition—must be able to perform the work of the trade.

Admission Requirements of JAC

- Personal Interview.
- Drug Testing.

Terms of Training

- Length of indentureship—4 years.
- Minimum hours of related classroom instruction—144 each
- Indentured to the Joint Apprenticeship Committee and assigned to a painting contractor.
- Length of probationary period—90 days.

Recommended High School Courses

General Science, Chemistry, General Math, Mechanical Drawing, Art.

Available Applications

Finishing Trades Institute of District Council 91
International Union of Painters and Allied Trades Local Union 469
3626 N. Wells Street
Fort Wayne, Indiana 46808
Randy Thieme
Telephone: (260) 385-9309



What A Plasterer Does

The Plasterer applies coats of plaster to interior walls and partitions of buildings to produce finished surfaces according to blueprints, architects specifications or oral instruction using hand tools and portable power tools. The Plasterer spread plaster over lath or masonry



base using trowels. They smooth plaster with a darby and a float to attain uniform thickness. They also apply scratch, brown or finish coats of plaster to metal or gypsum board lath. A Plasterer does new and repair ornamental work. The Plasterer applies special finishes to exterior surfaces such as stucco, exterior insulation finish systems, marblecrete, “gunite” for swimming pools, etc.

Working Conditions

Since some of the work is done outdoors, working conditions are governed by the weather. The work is active and strenuous with most of the work done on the ground or the floor level. The worker is required to stoop, bend, or kneel.

Interest and Temperament

Persons entering this occupation should receive satisfaction of tangible results from a job well done. They must be able to work without close supervision and be able to adapt to a wide variety of working conditions.

General Qualifications

- Age—18 or older.
- Minimum education—high school graduate or equivalent.
- Good physical condition—must be able to perform the work of the trade.
- Manual dexterity.

Admission Requirements of JAC

Personal interview.

Terms of Training

- Length of indentureship—4 years
- Minimum hours of related classroom instruction—144 each.
- Indentured to the Joint Apprenticeship Committee and assigned to a contractor.

Recommended High School Courses

General Math, Algebra, Geometry, Mechanical Drawing

Available Applications

Plasterers & Cement Masons Local 692

3626 North Wells St.

Fort Wayne, Indiana 46808

Pat Hansen—Apprenticeship Coordinator: (317) 508-1609

Telephone: (765) 768-1047

Kevin Wildes—Ft Wayne Area (260) 437-1842

Louis Ketchum—Hammond Area (219) 743-1513

Kevin Wildes—South Bend Area (574) 286-5672

Call for Appointment



What a Plumber, HVAC Tech, and Pipefitter Does

A Plumber installs pipes for water, gas, sewage and drainage systems. They also install sanitary facilities such as lavatories, toilets, tubs, bathroom fixtures, showers, kitchen fixtures, drinking fountains and laundry equipment. Although most Plumbers work at construction sites, some work for public utilities and industrial plants. A Plumber must also run tests on his installations to assure that the system is functioning properly and meets the plumbing code. They are often called upon to clear pipe lines and drains and make repairs on faucets, valves and leaky pipes. A HVAC Technician installs, makes diagnoses, and services heating, ventilation, air conditioning, and refrigeration systems. Technicians must be aware of information concerning the installation and use of cold state controls, state of the art equipment, and methods which must be used to comply with the environmentally safe use and handling of refrigerants. They must also be familiar with all types of modern air conditioning equipment, energy conservation, heat recovery, sound abatement, and other topics. Fitters assemble, install, and maintain pipes to carry water, steam, compressed air, gases, and fluids needed for processing, manufacturing, heating, or cooling. A fitter must be able to adapt and repair pipe systems and install appliances, heating and refrigeration units and do all types of pipe welding. Pipefitters install and repair high-pressure and low-pressure process piping, as well as piping for heating & cooling systems. Steamfitters install the supply lines and return lines of boilers.



Working Conditions

The work is active and sometimes strenuous. Usually they work indoors, but sometimes outdoors, sometimes on a ladder or scaffold, in trenches and in unfinished sections of new buildings. Often, work is done in cramped, wet or dirty locations. Frequently, it is necessary to stand for long periods. Occasionally, they work in uncomfortable positions in relatively inaccessible places.

Interest and Temperament

A person wishing to enter this type of work should be able to understand detailed, written and verbal instructions and should be able to plan ahead and visualize completed projects. Persons should enjoy working with their hands and accept working outside under adverse weather conditions. They must have the ability to solve arithmetic problems quickly and accurately.

General Qualifications

- Age—18 or older.
- Minimum education—high school graduate or equivalent.
- American citizenship.
- Good physical condition—must be able to perform the work of the trade.



Admission Requirements of JAC

- Aptitude test.
- Must pass drug test.
- Personal interview.

Terms of Training

- Length of indentureship—5 years (1st year probationary)
- Minimum hours of related classroom instruction - 246 hours per year.
- Indentured to the Joint Apprenticeship Committee and assigned to a contractor.
- Minimum hours of on-the-job learning for advancement = 850 hours per 6 months.

Recommended High School Courses

Algebra, Geometry, Drafting, Welding, Science, English

Available Applications

Please contact Les Zimmerman, Director of Training
Plumbers & Steamfitters Local 166
2930 West Ludwig Road
Fort Wayne, Indiana 46818
Telephone: (260) 490-5690



What a Roofer Does

The Roofer is the craftsperson who specializes in putting roofs on buildings and other structures to make them waterproof and weatherproof. The Roofer applies composition shingles, tile, slate, wood, single-ply systems and hot asphalt built up roofing. A Roofer uses modern equipment to handle materials thereby lessening the physical exertion which was formerly required. A Roofer is also called upon to waterproof and damp-proof walls and other building surfaces.

Working conditions

With the exception of waterproofing of some walls, the Roofer works out of doors in all kinds of weather and only shuts down operations when the weather becomes too severe. Most of the time, the Roofer works on the top of buildings installing roof materials, thus the Roofer must be constantly alert of the dangers of falling. A Roofer does a great deal of climbing, kneeling, standing, and walking on high places.



Interest and Temperament

A Roofer must have no fear of height, have a good sense of balance and a better than average sense of safety for self and co-workers. Persons wishing to enter this type of work should enjoy working with their hands and accept working outside, sometimes under unpleasant weather conditions.



General Qualifications

- Age—18 or older.
- Minimum education.
- Good physical condition—must be able to perform the work of the trade.

Admission Requirements of JAC

- Obtain work by a participating employer.

Terms of Training

- Length of indentureship—4.5 years.
- Minimum hours of related classroom instruction—466 total hours.
- Indentured to the Joint Apprenticeship Committee and assigned to a roofing contractor.

Recommended High School Courses

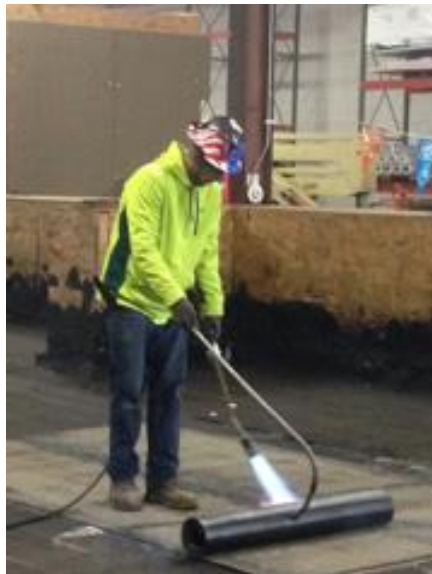
General Math, General Science.

Available Applications

Roofers Joint Apprenticeship & Training Center
22990 Ardmore Trail
South Bend, Indiana 46628
Email: charlesw1977@yahoo.com

Telephone: (574) 968-5500

Monday through Thursday 7:00 a.m.— 3:00 p.m..





What a Sheet Metal Worker Does

Sheet metal workers make, install, and maintain heating, ventilation, and air-conditioning (HVAC) duct systems in both residential and commercial applications; metal and copper roofs; metal siding; rain gutters; downspouts; stainless steel kitchen equipment; heavy iron industrial systems and many other products made from all types of metals. They also may work with fiberglass and plastic materials. Although most workers specialize in fabrication, installation or maintenance, some do all three jobs.

In addition some sheet metal workers specialize in testing, balancing, adjusting, and servicing existing air-conditioning and ventilation systems to make sure they are functioning properly and to improve their energy efficiency. Properly installed duct systems are a key component to heating, ventilation, and air-conditioning (HVAC) systems, which causes duct installers to sometimes be referred to as HVAC technicians. Many sheet metal workers work as detailers drawing the mechanical systems for a project using the latest computer aided drawing programs.

Working Conditions

The Sheet Metal Worker does a great deal of shop work compared to other construction tradespersons, by fabricating sheet metal in the shop. It is then delivered to the job for installation. On a new structure, a craftsperson works both inside and out at the construction site. Much of this work requires the ability to climb ladders and work from scaffolds. A Sheet Metal Worker must always be safety conscious because they can be cut by the tools they use or by the sharp edges of the metal with which they work.

Interest and Temperament

Persons interested in becoming Sheet Metal Workers must have mechanical ability and the ability to follow instructions. The apprentice always works with a journeyman. A good working knowledge of math along with mechanical drawing is an asset. The understanding of blueprints and the ability to work in close tolerances are necessary. They must also enjoy working with their hands and have the desire to think for themselves without constant supervision.



General Qualification

- Age—18 or older.
- Minimum education—high school graduate or equivalent.
- Good physical condition—must be able to perform the work of the trade.

Admission Requirements of JAC

- Medical examination may be required.
- Work Keys Aptitude test
- Credit for Armed Service—subject to review by committee.
- Personal interview.
- Credit for experience.
- Drug and alcohol test required.



Terms of Training

- Length of indentureship—5 years (all years require paid day classes)
- Minimum hours of related classroom instruction—196 hours each year.
- Indentured to the Joint Apprenticeship Committee.
- Length of probationary period—1,000 hours.
- The apprentice is paid to attend school.

Recommended High School Courses

General Math, Geometry, Trigonometry, Mechanical Drawing, Physics, General Science.

Available Applications

Sheet Metal Workers' Joint Apprenticeship Committee
Sheet Metal Workers Local 20
3019 Waynewood Drive
Fort Wayne, Indiana 46809

Telephone: (260) 478-1614



What a Sprinkler Fitter Does

A Sprinkler Fitter is a pipe fitting specialist in fire protection. They install, repair and maintain all types of fixed extinguishing systems. Most of the work deals directly with automatic sprinkler systems. They also have skills necessary to install and service a wide variety of other fire protection equipment such as standpipes, carbon dioxide systems, foam systems and dry chemical systems.

Working Conditions

The work can be done indoors or outdoors. Because the work entails a great deal of climbing, kneeling, standing and walking on scaffolding, the Sprinkler Fitter must be constantly alert to the danger of falling.

Interest and Temperament

Sprinkler Fitters must have no fear of height, have a good sense of balance and a better than average sense of safety for themselves and their co-workers. Persons wishing to enter this type of craft should enjoy working with their hands and a willingness to do hard physical work.

General Requirements

- Age 18 or older.
- Minimum education—High school graduate or GED.
- Good physical condition—must be physically capable of performing the work of the trade.





Admission Requirements of JAC

Employed by a participating contractor.

Terms of Training

- Length of Apprenticeship—5 years.
- On the job training plus related training which is conducted primarily via independent study.

Recommended High School Courses

General Math, Algebra I, Geometry, Drafting, Science, English.

Available Applications

Charles Ketner

Local 669 Joint Apprenticeship & Training Committee

7050 Oakland Mills Road, Suite 100

Columbia, Maryland 21046

Telephone: (800) 638-0592



What a Telecommunication Installer-Technician Does

A Telecommunication Installer-Technician installs voice and data outlets at workstations. In addition, they install punch down blocks and cross connects in telephone rooms. These may be wall mounted or rack mounted, and must be grouped and identified according to specific installation standards. Whether the work is in new construction or in existing office or manufacturing space, the IBEW-NECA craftsman takes pride in the work he or she has and can perform.

Working Conditions

In new construction, telecommunications workers move onto the job as soon as the structure begins to take form. While most installations are in buildings that are partially or fully enclosed to protect from sun, wind and rain; these installations are often done before air conditioning, heat or permanent light fixtures have been installed. Many jobs, however, are in existing buildings or offices; and some work may be outside. The work is active and strenuous with much of the work done in awkward positions and frequently in cramped quarters. They must do considerable standing, reaching, bending, stooping, climbing and carrying and lifting in order to install electrical conduit and equipment. They must wear protective clothing to guard against the hazards of working with electricity. They may work in all kinds of weather. The work is interesting and diversified. Telecommunications workers may be called upon to work in new and old buildings, new and old homes and also commercial and industrial construction.

Interest and Temperament

A person interested in becoming a telecommunications installer—technician must enjoy working with math problems and be able to work in fairly close tolerances. The electrical industry, by its very nature, places a high degree of personal responsibility on the individual journeyman. While supervision is provided on many jobs, the telecommunications worker is often called upon to make decisions regarding the best and safest method of installation to produce a given result.

General Qualifications

- Age—18 or older.
- Minimum education—high school graduate or GED.
- One full credit of Algebra
- Valid Driver's License.
- Good physical condition—must be able to perform work of the

Admission Requirements

- Qualified score on Aptitude test.
- Personal interview.
- Must pass physical exam and drug test.

Terms of Training

- Length of Apprenticeship—3 years
- Minimum hours of classroom training—160 hours.
- Length of probation period—12 months or 1600 hours.
- The term of Apprenticeship will be no less than 4800 hours of on-the-job training.

Recommended High School Courses

General Math, Algebra (1 full credit), Geometry, General Science, Trigonometry.

Available Applications

Electricians' Joint Apprenticeship & Training Committee
138 Chambeau Road
Fort Wayne, Indiana 46805

Telephone: (260) 483-6257

Applications accepted Monday—Friday, 8:00 a.m.—4:00 p.m.

Notes:



*Build Your Own Career Path
Learn a Construction Trade*

Nicole Mays-Walker
Office Administrator
**Northeast Indiana Building & Construction
Trades Council**
3019 Waynewood Drive
Fort Wayne, IN 46809

Phone: 260-489-8574
Fax: 260-490-9401
Email: officeadmin@neibt.org