

**Boilermakers Local 1**  
2941 Archer Avenue  
Chicago, IL. 60608

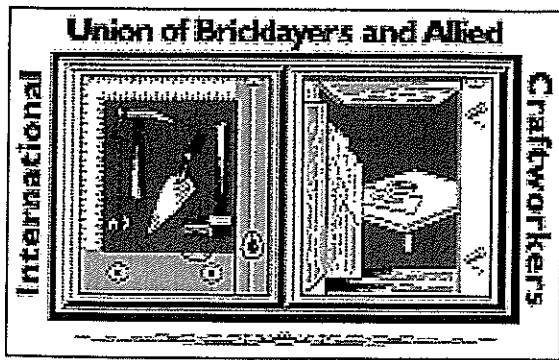
A Boilermaker is a member of the International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers. Our members fabricate, erect and repair systems and components throughout the commercial and industrial sector of the Power Generation, Pollution Control, Petro-Chemical, Steel, Pulp & Paper, Ship Repair, Mining, Storage Tanks, Towers & Pressure Vessels, Cement and other related industries. The owner community and contractors that employ our members rely on the Boilermakers National Apprenticeship Program to produce the needed Boilermaker crafts-persons that will possess the skills needed to perform the work in the safest and most productive manner possible.

Headquartered in Kansas City, KS and with 45 construction lodges across the United States, the Boilermaker Organization plays an integral part in the building and re-building of America. This is done by being highly proficient in the following skills: **Safety Awareness, Welding, Cutting, Rigging, Crane Erection, Crane Signaling, Testing, Fabrication, Alignment, and Bolting, Fit up, Blueprints, Metallurgy, Steel Erection, Tube Rolling, Layout, Scaffold Erection, etc.** Our work includes constructing and repairing pressure vessels, boilers and large pipe networks.

Throughout the course of the **four-year (6,000 hour) apprenticeship program**, you will gain many skills that will enhance your current and future employment opportunities. Our basic program format uses a blended approach that includes safety, orientation, on-the-job training, related studies lessons, LMS On-Line Interactive Core Training, classroom lessons and hands-on instruction all in a controlled setting.

In addition, many of our members may possess **specialty welding process certifications** for Stud Welding, Orbital GTAW and Remote Video process applications. Journeymen and apprentices can attain numerous welding (ASME & AWS) certifications that cover many processes related to structural steel and pressure vessels, material composition and thickness.

For more information: [www.boilermakers.org](http://www.boilermakers.org).



**Bricklayers & Allied Craftworkers (BAC) Local 74  
District Council Training Center  
2140 Corporate Drive  
Addison, IL 60101**

The Bricklayers and Allied Craftworkers union (BAC) represent the most highly skilled trowel trades craftworkers across the United States and Canada

including bricklayers, stone and marble masons, cement masons, plasterers, tile setters, terrazzo and mosaic workers, and pointers/ cleaners/ caulkers. With over a century of protecting the rights of our workers, BAC is the oldest continuous union in North America.

The International Masonry Training and Education Foundation provides training, certifications and continuing education programs to the members of the International Union of Bricklayers and Allied Craftworkers. These programs begin with pre-job training and training for apprentices, and continue throughout a craftworker's career in **brick, stone, tile, marble, terrazzo, pointing-caulking-cleaning, refractory, plaster, cement and mosaic work. New cladding systems and installation technologies are also emerging**, and IMTEF provides advanced training for these opportunities as well fund and administer training programs for local BAC unions.

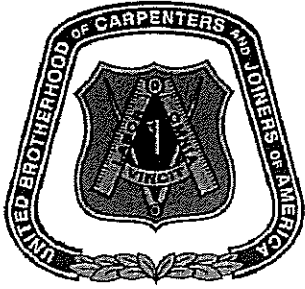
### **PRE-JOB APPRENTICES**

New BAC apprentices receive critical job preparation skills through the IMTEF pre-job training programs. Along with craft-specific technical and hands-on training, they learn health, safety and workplace skills. When apprentices complete the program, they are ready to be employed and contribute on the jobsite.

### **APPRENTICES**

Skilled BAC craftworkers begin their careers as apprentices through their local Joint Apprentice and Training Committee (JATC). **Apprenticeships typically last 3–4 years**, during which apprentices receive classroom, shop, and on-the-job-training. Much of that training is provided at local union training centers, as well as the National Training Center

For further information: [www.bac2school.org](http://www.bac2school.org)



**The Chicago Regional Council of Carpenters  
Apprentice and Training Program**  
1256 Estes Avenue, Elk Grove Village, Illinois 60007  
Phone: (847) 640-7373, Fax: (847) 364-8367

## Building Communities

The Chicago Regional Council of Carpenters represents tens of thousands of working men and women throughout more than 70 counties in Illinois and Eastern Iowa. Since 1881 our Regional Council has been a productive, **positive force in building communities®** while improving the lives of its skilled members and their families.

Our Apprentice Training Program combines hands-on classroom education by qualified instructors with on-the-job training. This "**earn while you learn**" approach gives you the opportunity to earn a good living while developing highly marketable skills for life. We have numerous specialized carpenter training programs that are right for you including:

- **Carpentry - General**
- **Concrete Forming**
- **Drywall**
- **Floor Covering**
- **Insulation**
- **Lathing**
- **Mill Cabinet**
- **Millwright**
- **Pile Driving**
- **Shingling**
- **Siding**

**Pre-apprenticeship** offers persons wishing to join the union with no experience the training necessary to work as beginning carpenters. There are three pre-apprentice programs: **General Carpentry @ 9 weeks, Concrete Form Builders @ 9 weeks, and Mill Cabinet @ 9 weeks.**

By completing the nearly **6,000 hours of work experience required to graduate the training program. Apprentices gain journeyman status** and become the best trained, best-rounded and preferred candidates available for employment in the carpentry industry. **Most apprenticeships last four years.**

For more information: [www.chicap.org](http://www.chicap.org).



JATC (IBEW LOCAL 176)  
1110 N.E. FRONTAGE ROAD  
JOLIET, IL 60431  
VOICE: 815.741.2758  
FAX: 815.741-9026

International Brotherhood of Electrical Workers



National Electrical Contractors Association

## International Brotherhood of Electrical Workers

1. The IBEW represents approximately 750,000 active members and retirees who work in a wide variety of fields, including utilities, construction, telecommunications, broadcasting, manufacturing, railroads and government. The IBEW has members in both the United States and Canada and stands out among the American unions in the AFL-CIO because it is among the largest and has members in so many skilled occupations.

Training consists of theoretical and proficiency based (**which includes welding proficiency**) instruction for all segments of our marketplace. Apprentices can achieve journeyman status after successfully completing a **5 year program for Inside Wiremen or a 3 year program for Installer-Technicians (Video, Voice & Data)**. Advanced specialized courses are also available to qualified journeymen in such fields as Supervision/Project Management, Fiber Optics, Photovoltaic, High Voltage Splicing/Testing, Industrial Automation, Instrumentation, Safety (OSHA 10/30, NFPA 70E, CPR, First Aid). It is our mission to develop the best-trained most highly motivated, customer-centered workforce in the country.

### What Do Electrical Workers Do?

There are **four specialty areas** where you will find electrical workers.

- **Outside Linemen**- install the distribution and transmission lines that move power from the plant to a factory, a business, or home.
- **Inside Wiremen**-install the power, lighting, controls and other electrical equipment in commercial and industrial buildings.
- **VDV Installer Technicians**-install circuits and equipment for telephones, computer networks, video distribution systems, security and access control systems and other low voltage systems.
- **Residential Wiremen**-specialize in installing all of the electrical systems in single-family and multi-family houses or dwellings.

For more information go to: [www.ibewlocal176.org](http://www.ibewlocal176.org)



**IRON WORKERS UNION**  
**LOCAL 444**  
2082 Oak Leaf Street  
Joliet, Illinois 60436  
Office (815) 725-1804  
Fax (815) 725-0147

Ironworker's Local union 444 is a member of the International Association of Bridge, Structural, Ornamental, and Reinforcing Iron Workers. Iron workers erect structural steel buildings, bridges, raise pre-cast units for buildings and bridges, install ornamental components, and work in all forms of concrete reinforcement. Along with the core units listed above of our trade, our workers are trained to meet the safety and technological advances for tomorrows construction needs. We maintain a training center with up-to-date information on new products, new techniques, and safety improvements. An AWS certified welding facility with 15 weld booths are available to members for weld certification and training. We have AWS certified welding inspectors available for members' certification and upgrade.

**Ironworker Training has many sectors, including, but not limited to:**

#### **Structural**

- Unload, erect, and connect fabricated iron beams to form the project skeleton.
- Work primarily on industrial, commercial and large residential buildings.
- Build towers, bridges, stadiums, and prefabricated metal buildings
- Erect and install pre-cast beams, columns and panels.

#### **Reinforcing**

- Fabricate and place steel bars (rebar) in concrete forms to reinforce structures.
- Place rebar on appropriate supports and tie them together with tie wire.
- Install post-tensioning tendons (cables) to place in concrete forms along reinforcing steel.
- Stress the tendons using hydraulic jacks and pumps after the concrete is poured and hardened

#### **Ornamental (Architectural)**

- Install metal windows into a building's masonry or wooden openings.
- Erect curtain wall and window wall systems that cover the steel or reinforced concrete structure of a building.
- Install and erect metal stairways, catwalks, gratings, doors, railings, fencing, elevator fronts and building entrances.

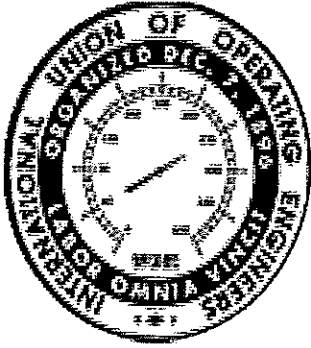
#### **Rigging and Machinery Moving**

- Load, unload, move and set machinery, structural steel and curtain walls.
- Operate power hoists, cranes, derricks, forklifts and aerial lifts.
- Have knowledge of fiber line, wire rope, hoisting equipment and proper hand signals.

#### **Welding and Burning**

Welding and burning equipment are considered tools of the trade and performed by structural, reinforcing, ornamental and rigging ironworkers to secure their work to the structure. Ironworkers can be tested to be designated a certified welder.

For more information: [www.ironworkers.org](http://www.ironworkers.org)



**International Union of Operating Engineers  
(IUOE) LOCAL 150**

**Apprenticeship & Skill Improvement Program**

19800 W. South Arsenal Road

Wilmington, Illinois 60481

Phone: 815-722-3201

Fax: 815-423-5749

Local 150's training center is situated on 300-plus acres in Wilmington, IL. The center boasts 342,000 square feet of space housing an indoor training area, almost 200 pieces of heavy equipment, 30 classrooms, construction material testing lab, state of the art welding facility, equipment simulator lab, a 200-seat auditorium, and much more. Operating Engineers cover a variety of job classifications in industries such as highway and building construction (sometimes called Hoisting and Portable, descriptive of the type of equipment used), mining, toll ways, municipalities, tunnels, slag, landscaping, power plants, refineries, railroads, quarries, plants that produce rock, sand and gravel, logging, utility work such as gas, water and sewer excavation.

Whether working as heavy equipment operators, heavy equipment mechanics, or surveyors, **Operating Engineers are the highly skilled persons who are found on any project using construction equipment. "Heavy Equipment" is the blanket term for numerous types of machines. Cranes, bulldozers, front-end loaders, rollers, backhoes, graders, dredges, hoists, drills, pumps and compressors are just some of the equipment utilized by Operating Engineers.** In most cases, if it can push, pull, pump or lift material, rolls on tires or crawls on tracks like a tank, it falls under the jurisdiction of the I.U.O.E. Although everyone has their favorite type of machinery to operate, Operating Engineers are masters of a large variety of equipment. This versatility keeps you employable since employers' needs vary from project to project.

Being a construction equipment operator can be a rewarding career. It requires good hand-eye coordination and a high level of physical stamina. Working outdoors is one of the advantages of being an operator, but the work is sometimes hazardous and the equipment is very noisy. Almost all of the work performed by Operating Engineers, including some of the mechanics work, takes place outdoors, in all kinds of weather and conditions. You can expect to be cold in the winter, hot in the summer, and dirty, greasy, muddy, and dusty in between.

Each of our apprenticeship programs include 6000 or more hours of On-the-Job Learning, 240 or more hours of Classroom instruction, and 192 hours or more of Field Instruction. There are also requirements of proficiencies and certifications that are unique to each of the 4 programs.

**Approximate length of programs:**

Heavy Equipment Operator – 4+ Years

Heavy Equipment Technician – 5+ Years

Geothermal/Water Well Driller – 4+ Years

Construction and Building Inspector – 4+ Years

For more information: [www.asiplocal150.org](http://www.asiplocal150.org) or [www.iuoe.org](http://www.iuoe.org)



## Pipe Fitters' Training Center

Local Union 597

10850 W 187<sup>th</sup> Street

Mokena, IL. 60448

Phone: 708.326.9240

Fax: 708.326.9241

Individuals who enter a United Association **five-year apprenticeship program** are part of a select group of men and women motivated to learn a complex and challenging trade while upholding the ideals of trade unionism. Applicants are evaluated on the same fair basis, without regard to race, sex, national origin or religious affiliation.

UA apprentices learn through both classroom and on-the-job training in what is considered by many to be the best construction industry apprentice program in the world. **The five-year apprenticeship period is divided into one-year segments, each of which includes 1,700 to 2,000 hours of on-the-job training and a minimum of 216 hours of related classroom instruction.**

All UA apprentices receive a strong general education background in the trade, with core courses in basics such as mathematics and drafting. **Apprentices choose a specific path to follow, to become trained as a journeyman pipe fitter, sprinkler fitter, or service mechanic.**

All training programs are run through United Association local joint training committees in specific cities or regions, and are overseen by National Joint Training Committees. One of the things that make the UA training program so successful is that we view it as a joint partnership between labor and management.

Apprenticeship is not an easy time: UA apprentices must work the same hours as journeypersons plus attend classes. Yet, this can be a highly rewarding career path for an individual who is highly motivated to learn the piping trade and become an active member of a proud and noble trade union.

For more information: [training@pftf597.org](mailto:training@pftf597.org)



**Plumbers' Joint Apprenticeship Committee, Local Union 130, U.A.**

2114 S. I-80 Frontage Rd.  
Joliet, IL 60436  
(815) 725-0278

### **What Is A Plumber?**

Plumbers work with the various materials and fixtures used in installation, removal, maintenance, extension and alteration of a plumbing system. Plumbing systems include all sanitary drainage, storm drainage facilities, special wastes, vent systems, public or private water systems and gas piping within or adjacent to any building.

### **Plumber Apprenticeship**

During the term of five (5) years, the apprentice will work 9000 hours of on-the-job training. You will also attend 1080 hours of related training classes

### **Plumber - Job Duties**

A plumber is responsible for installing, repairing and maintaining pipes, fixtures and other plumbing use for water distribution and waste water disposal in commercial and industrial buildings.

A plumber reads blueprints, drawings and specifications to determine the layout of plumbing systems, water supply networks and waste and drainage systems. A plumber selects and insert precut pieces of copper tubing and fittings in holes. Plumbers connect tubing and fittings using solder paste, or solder and torch, to form sewer, drain, and water lines. A plumber may direct workers engaged in preassembly and installation of wall systems, such as risers, air chambers, and shower assemblies.

Plumbers work in cooperation with other trades and laborers to ensure that all specifications, legislation and policies are met, to ensure efficient completion of any project. Providing adequate services, by a qualified plumber, will ensure that all water supply networks and waste and drainage systems are installed, repaired and maintained to meet all standards of building codes and safety.

For more information: [www.plumberslu130.com](http://www.plumberslu130.com)