

# **JOINT APPRENTICESHIP TRAINING PROGRAM OF THE ELECTRICAL INDUSTRY**



## **Local Union No. 3 IBEW and New York NECA – A Prestigious Training Program**

In the fast-paced New York electrical contracting industry, well-trained electrical workers are in high demand. The International Brotherhood of Electrical Workers (IBEW) Local Union No. 3, together with the National Electrical Contractors Association (NECA) of New York City, provide the industry with highly skilled and trained electricians. As New York City's only state-certified union based training program for the electrical industry, the Joint Apprenticeship Training Program (JATP) provides a rigorous and disciplined course of study. This ensures that graduates of this program are the best qualified electrical workers for commercial, residential, and institutional projects.

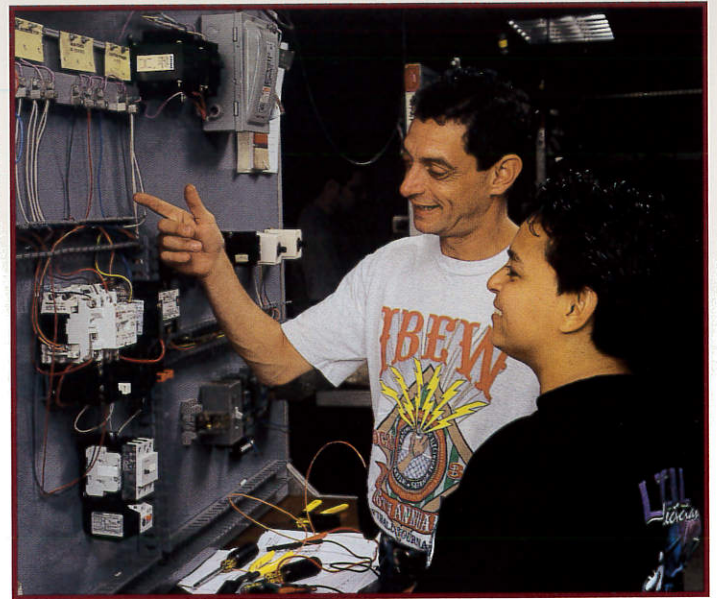
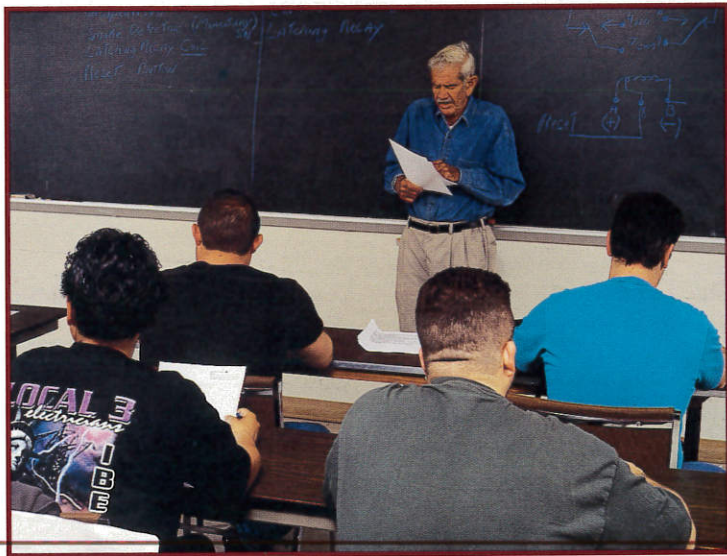


***The Electrical Industry Center in Flushing, New York –  
Headquarters for the Joint Industry Board  
of the Electrical Industry.***



## ***Comprehensive Curriculum***

Classes are held at the High School for Humanities Evening Trade School at 160 5th Avenue in Manhattan, as well as the Electrical Industry Center in Flushing. These sites include 60 classrooms, labs, and a fully equipped auditorium. This program meets the requirements of the New York City Department of Education and is reviewed by the Department of Labor and the New York State Education Department. Instructors are licensed by the New York City Department of Education.



### ***The JATP's Curriculum and Advanced Education Include:***

- Five years and over 8,000 hours of training
- Hands-on training in classrooms and on job sites
- Instruction from experienced electricians and professional teachers
- Courses in all aspects of electrical construction and telecommunications work, including new technologies such as fiber optics, motor controls, and tele-data wiring

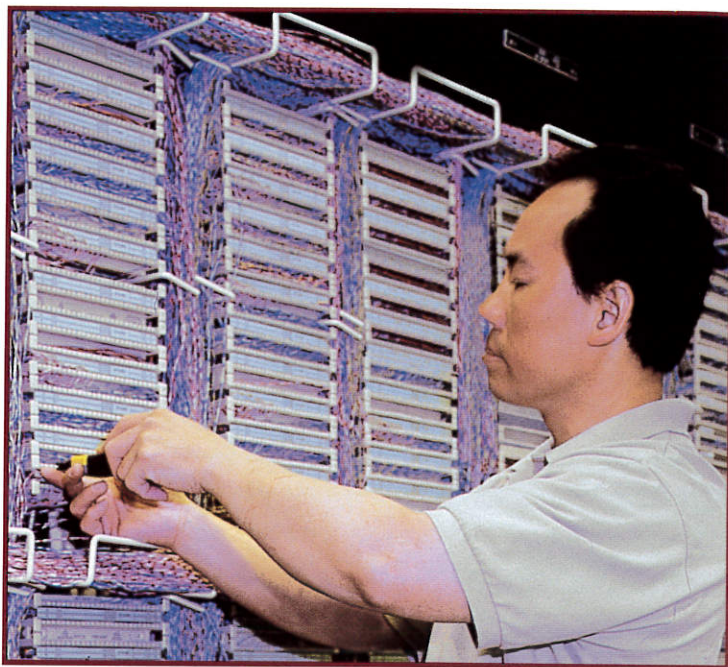


***Electchester – Housing community for Local Union No. 3, IBEW apprentices and electricians.***

## ***Requirements to Qualify for Apprenticeship***

The Joint Apprenticeship Training Program seeks the best qualified individuals. High standards and a disciplined trade mean that only the very best candidates are accepted. There is a limited number of apprentices who are accepted into the program at any given time. The admission process is extremely competitive. Many successful candidates possess two-year or four-year college degrees, electrical construction experience, or related training from the military. Applicants must meet the following minimum requirements in order to be *considered* for acceptance into the program by the Joint Apprenticeship Training Committee:

- One year of algebra/regents math
- Two years residence in Greater New York Metropolitan Area
- Physically able to perform the work required
- Successful completion of an aptitude test



***For more information regarding the Joint Apprenticeship Training Program, call 718/591-2000, extension 1384.***



***Joint Industry Board of the Electrical Industry  
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## On-the-Job Training

The learning process of the Joint Apprenticeship Training Program of the Joint Industry Board reaches beyond the classroom. IBEW Local Union No. 3 apprentices working for NECA contractors are provided the opportunity to apply their classroom education within a job site environment. Apprentices work alongside experienced electricians, learning first-hand about job skills, procedures, and safety measures. Apprentices receive over 35 hours per week of on-the-job training over the course of five years, while honing their skills and mastering their craft.



## Associate of Science Degree College Program

A truly unique and outstanding aspect of the Joint Apprenticeship Training Program is the Associate Degree Program. Under the guidance of the Joint Industry Board of the Electrical Industry, the Apprenticeship Training Program in New York is the only one of its kind throughout the country that requires apprentices to earn an Associate Degree. IBEW Local Union No. 3 apprentices are able to gain a better understanding of the electrical industry as well as the labor movement and its importance to the nation. In order to obtain their degree, apprentices must complete 108 hours of college courses through the Harry Van Arsdale Jr. School for Labor Studies, Empire State College, the State University of New York.

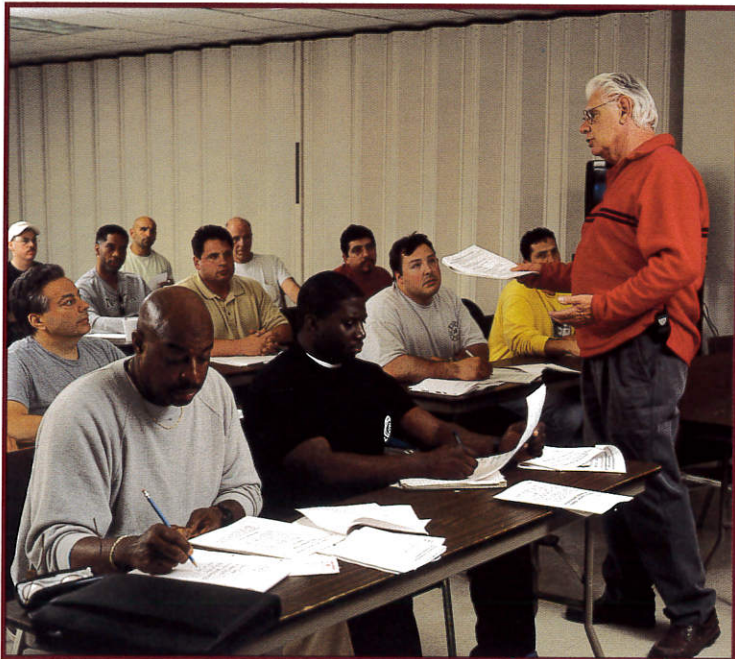
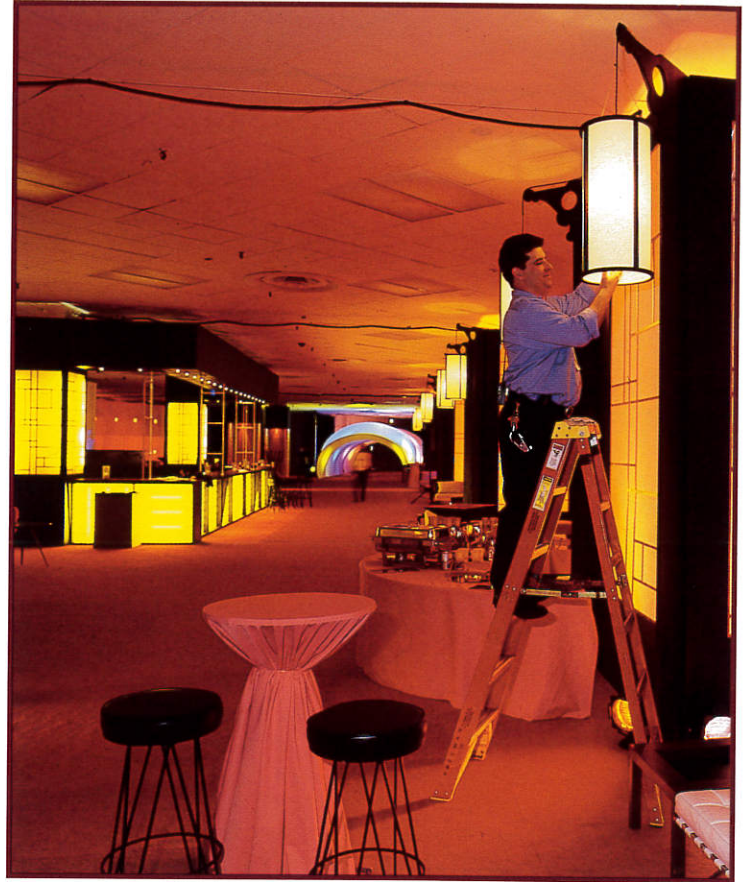
## Electrical Theory Classes

The highly-respected Joint Apprenticeship Training Program of IBEW Local Union No. 3 and New York City NECA provides a stringent educational and vocational curriculum that spans over five years and thoroughly prepares electricians to work in the electrical field.

### Basic Curriculum Highlights

#### 1st Year

- History of the Electrical Industry
- Basic Safety
- Tools and Materials
- Basic Circuitry, Electromagnetism
- Intro to the Electrical Code
- Intro to Blueprints



#### 2nd Year

- Unions and their Structure
- National Electrical Code
- Electrical Theory
- Intro to Electronics and Testing Equipment
- Inductance, Capacitance and Transformers
- Wiring Methods and Blueprints

#### 3rd Year

- Labor History and Early Electrical Theories
- Semi-Conductors
- Transistors and Silicon Controlled Rectifier
- Job Specifications and Prints
- Grounding
- Load Calculations

## ***Basic Curriculum (Continued)***

### ***4th Year***

- Lightning Protection
- Fractional H.P. Motors
- Motor Control (MC) Theory
- Advanced MC Design
- Starters and Controllers
- Digital Electronics
- Intro to Fiber Optics
- Power Factors and Harmonics
- Electrical Code Calculations

### ***5th Year***

- Sexual Harassment in the Workplace
- Fire Alarm Systems
- Process Controllers
- Tele-Data & Fiber Optics
- Intro to Networks
- Motor Control
- Intro to Welding
- Job Management



### ***Hands-On Training Classes Include:***

- Pipe Bending
- Tele-Data Wiring
- Fiber Optics
- Motor Controls
- Telephone Switching
- Welding
- CPR

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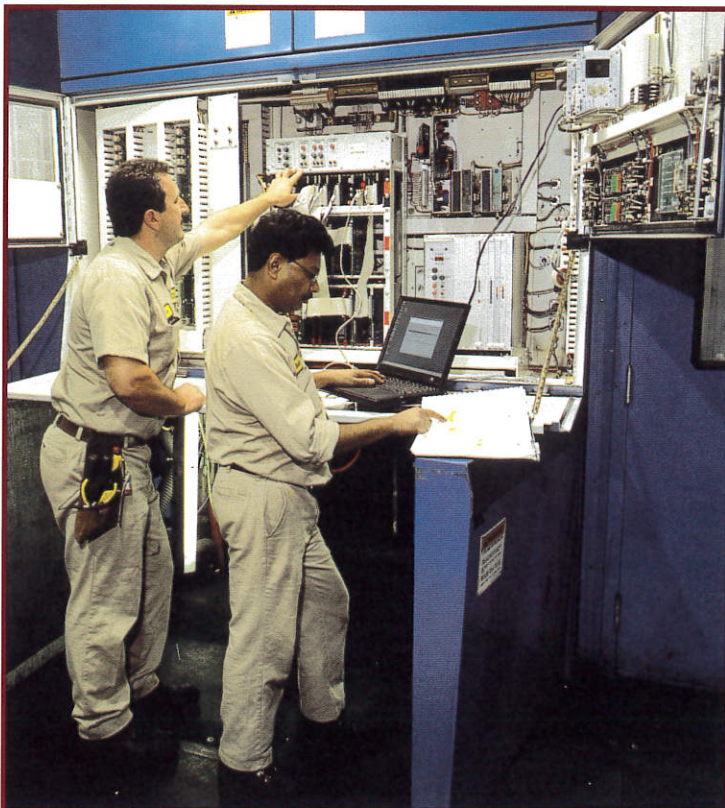


## **Additional Educational Benefits**

The continued education classes offered by the Joint Apprenticeship Training Program serve to keep electricians up-to-date on all advanced technologies as well as the latest electrical codes for the full scope of electrical construction, maintenance, and telecommunications projects.

### **Continued Education Courses, Beyond the Apprenticeship, Include:**

- Computer Classes
- CISCO Networking
- Networks and Network Testing
- Computer Aided Design
- Estimating – Basic and Advanced
- Safety Classes
- Transit Skills



### **Electrical Industry Scholarship**

The Joint Industry Board of the Electrical Industry and its member organizations, IBEW Local Union No. 3 and New York NECA, recognize that higher education is beneficial to the welfare of sons and daughters of participants in their benefit plans. Since 1949, over 1,600 scholarships have been awarded to children of members. Eligibility for these scholarships is effective after five years of employment with a contributing employer.

### **College Tuition Reimbursement Program**

The goal of achieving higher education for eligible members of IBEW Local Union No. 3 is facilitated by the Educational & Cultural Fund of the Joint Industry Board through its College Tuition Reimbursement Plan. This plan gives members and their spouses an opportunity to pursue an education all the way through to a doctorate degree. Program participants are entitled to a lifetime reimbursement of up to \$20,000 for members and \$15,000 for spouses. Eligibility for this college tuition is effective after three years of employment with a contributing contractor.

# Safety Education

## Maintaining A High Safety Record

The Employers and Employees affiliated with the Joint Industry Board of the Electrical Industry maintain an excellent safety record through strict adherence to proper procedures as prescribed by:

- The Apprenticeship Training Program Safety Classes
- Continued education for journeyman electricians that spans their careers
- Compliance with the latest OSHA standards and safety techniques
- Mandatory safety classes with seasoned instructors and professionals



### Safety Classes for Journeymen Include:

- Asbestos Handler
- Confined Space
- CPR
- Hazard Communication
- High Voltage Safety
- Lock-out/Tag-out
- Respiratory Protection