

# Electrical Trades

Jackson Center

2 Year Program

Mr. Mike Cacciuttolo

**T**hese workers install and maintain electrical systems for a variety of purposes such as power, lighting, climate control, security and refrigeration. They may also install electronic controls for machines. Most specialize in residential, commercial or industrial work, but many do all three. Some work on major construction projects while others may work for themselves as home repair specialists.

## Skills You Will Learn

Basic federal, state and local electrical codes

*How to:*

- Plan and organize work
- Perform activities related to AC/DC circuits
- Compute electrical service loads
- Install service entrances, switch and outlet boxes
- Rough in circuits
- Install electrical environmental control systems
- Install electrical devices and appliances
- Maintain and repair existing wiring systems

## Worker Requirements

*You should prefer:*

- Activities dealing with things
- Activities which use machines and tools

*You should be able to:*

- Use the National Electrical Code book when performing tasks
- Read and understand technical manuals and wiring diagrams
- Work within precise limits or standards which may often change
- Work alone or with limited supervision

*Physically you must:*

- Climb and balance
- Maintain good vision, including color vision
- Reach for, handle and grasp hand tools and small objects
- Bend, crouch, crawl and lift heavy objects

## Related Job Titles

Contract Electrician

Electrical Repairer

Maintenance Electrician

## Career Ladder

Most electricians start in an apprenticeship program or as helpers and are promoted with experience and training. Many experienced electricians become supervisors or licensed electrical contractors.

## Continuing Education

Ocean County Vocational Technical School

Apprenticeship Program

Ocean County College

New Jersey Institute of Technology

DeVry Institute

## Additional Information

National Electrical Contractors Association

7315 Wisconsin Ave.

Bethesda, MD 20814

International Brotherhood of Electrical Workers (IBEW)

Local IBEW #827

1200 River Ave.

Lakewood, NJ 08701

**Upon successful completion of this two-year program, students will receive advanced standing in the OCVTS Apprenticeship program.**