

INDUSTRIAL ELECTRICAL ACCELERATED

& MECHANICAL CAREER PATHWAY

The Industrial Electrical & Mechanical Accelerated Pathway is designed to meet the industry demand for entry-level and incumbent workers entering or working in manufacturing, distribution and other industries using advanced technology in plant operations.

Trainees will receive Cal OSHA 10 and nationally recognized certifications, as well as instruction in industrial electrical and mechanical trades, industry process math, blueprint reading, troubleshooting industrial controls, Ohm's law, motor controls, PLCs and oxyfuel cutting. For a list of the full curriculum modules, please review the back of this page.

APPRENTICESHIP: This program is approved by the California Division of Apprenticeship Standards for period one of the occupation of Industrial Maintenance Electrician.

PAID INTERNSHIPS: Dependent on grant funds and employer participation, trainees may qualify to participate in a 400-hour paid internship at \$15.00 an hour at the completion of training.

**NEXT TRAINING PROGRAM:
APRIL 9, 2018 - JULY 25, 2018**

Annual Job Openings
in the Inland Empire: **444**

\$16.49 - \$45.18

Entry to Experienced Hourly Wage Range

After successful training completion, trainees will work with InTech Career Center to consider careers with employer partners who may have open job opportunities.

**REGISTER FOR AN INFORMATION
SESSION TO FIND OUT MORE:**

www.intechcenter.org
(909) 652-8488

INTECH
INDUSTRIAL TECHNICAL LEARNING CENTER



Chaffey College

INDUSTRIAL ELECTRICAL & MECHANICAL ACCELERATED PATHWAY CURRICULUM

Trainees are exposed to a variety of topics designed to prepare them for entry-level positions in advanced manufacturing. Training is offered in full-time and part-time programs. Most trainees will receive instruction in the following topics:

PRE-APPRENTICESHIP

Craft Fundamentals & Cal OSHA 10

- Basic Safety with Cal OSHA 10
- Introduction to Hand Tools
- Introduction to Construction Math
- Introduction to Power Tools
- Construction Drawings
- Basic Rigging
- Introduction to Materials Handling
- Craft-Related Mathematics

Fundamentals of Industrial Electrical and Mechanical Trades

- Fasteners and Anchors
- Gaskets and Packing
- Pumps and Drivers
- Valves
- Introduction to Test Instruments
- Lubrication
- Mobile & Support Equipment
- Introduction to Electricity & Ohm's Law

Introduction to Welding

- Oxyfuel Cutting

APPRENTICESHIP PERIOD ONE

Introduction to Industrial Electrical

- Industrial Safety for E&I Technicians
- Introduction to the National Electrical Codes
- Process Mathematics
- E&I Test Equipment
- Introduction to Electrical Troubleshooting
- Electrical Theory
- Alternating Current
- Electrical Blueprints & Drawings
- Motors & Controls
- Flow, Pressure, Level & Temperature
- NFPA 70E Arc Flash Safety
- NFPA 70B Electrical Equipment Maintenance
- Conductors and Cables
- Conductor Terminations and Splices
- Instrumentation & Process Controls I
- Basic PLCs

CERTIFICATION: Industrial Electrical & Mechanical trainees who successfully complete these topics will receive their **Cal OSHA 10 Certification** and the following NCCER Industrial Maintenance Electrical & Instrumentation Certifications: **Core & Level 1**. Trainees will also have the opportunity to receive Level 2 certification.

*For more information, contact the
InTech Center:*

(909) 652-8488 | www.intechcenter.org



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