



Electrical

Federal and State Approved Apprenticeship Program

Building the Industry together One Block at a Time

NCCER Core Curricula

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Blueprints
- Basic Rigging
- Basic Communication Skills
- Basic Employability Skills

NCCER Level One

- Electrical Safety
- Hand Bending
- Fasteners and Anchors
- Electrical Theory One
- Electrical Theory Two
- Electrical Test Equipment
- Introduction to the National Electrical Code
- Raceways, Boxes, and Fittings
- Conductors
- Introduction to Electrical Blueprints
- Wiring: Commercial and Industrial and Residential

NCCER Level Two

- Alternating Current
- Motors: Theory and Application
- Grounding
- Conduit Bending
- Boxes and Fittings
- Conductor Installations
- Cable Tray
- Conductor Terminations and Splices
- Installation of Electric Services
- Circuit Breakers and Fuses
- Contactors and Relays
- Electric Lighting

NCCER Level Three

- Load Calculations
- Conductor Selection and Calculations
- Overcurrent Protection
- Raceway, Box, and Fitting Fill Requirements
- Wiring Devices
- Distribution Equipment
- Distribution System Transformers
- Lamps, Ballasts, and Components
- Motor Calculations
- Motor Maintenance, Part One
- Motor Controls
- Hazardous Locations

NCCER Level Four

- Load Calculations – Feeders and Services
- Practical Applications of Lighting
- Standby and Emergency Systems
- Basic Electronic Theory
- Fire Alarm Systems
- Specialty Transformers
- Advance Motor Controls
- HVAC Controls
- Heat Tracing and Freeze Protection
- Motor Maintenance, Part Two
- High-Voltage Terminations/Splices

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