



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 Construction Drawing
- Basic Rigging
- Basic Communication Skills
- Basic Employability Skills
- Introduction to Material Handling

NCCER Level One

- Orientation to the Electrical Trade
- Electrical Safety
- Introduction to Electrical Circuits
- Electrical Theory One
- Introduction to the National Electrical Code
- Device Boxes
- Hand Bending
- Raceways and Fittings
- Conductors and Cables
- Basic Electrical Construction Drawings
- Residential Electrical Services
- Electrical Test Equipment

NCCER Level Two

- Alternating Current
- Motors: Theory and Application
- Electrical Lighting
- Conduit Bending
- Pull and Junction Boxes
- Conductor Installations
- Cable Tray
- Conductor Terminations and Splices
- Grounding and Bonding
- Circuit Breakers and Fuses
- Control Systems and Fundamental Concepts
- Your Role in the Green Environment

NCCER Level Three

- Load Calculations – Branch and Feeder Circuits
- Conductor Selection and Calculations
- Practical Applications of Lighting
- Hazardous Locations
- Overcurrent Protection
- Distribution Equipment
- Transformers
- Commercial Electrical Services
- Motor Calculations
- Voice, Data, Video
- Motor Controls

NCCER Level Four

- Load Calculations – Feeders and Services
- Health Care Facilities
- Standby and Emergency Systems
- Basic Electronic Theory
- Fire Alarm Systems
- Specialty Transformers
- Advanced Controls
- HVAC Controls
- Heat Tracing and Freeze Protection
- Motor Operation and Maintenance
- Medium Voltage Terminations/Splices
- Special Locations
- Introductory Skills for the Crew Leader

Associated Builders and Contractors of Southern California, Inc. is a fully accredited Training Sponsor by the National Center for Construction Education and Research (NCCER) since 1996.