



Sheet Metal

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

- Introduction to the Trade
- Tools of the Trade
- Introduction to HVAC
- Trade Math One
- Installation of Duct Work and Air Distribution Accessories
- Soldering and Insulation
- Air Distribution Systems
- Basic Electricity and Alternating Current
- Your Role in the Green Environment

NCCER Level Two

- Trade Math Two
- Introduction to Sheet Metal Layout and Processes
- Fabrication: One – Parallel Line Development
Two – Radial Line Development
Three – Triangulation
- Bend Allowances
- Introduction to Cooling and Heating
- Basic Electronics
- Metering Devices
- Compressors and Heat Pumps
- Leak Detection, Evacuation, Recovery and Charging

NCCER Level Three

- Plans and Specifications
- Duct Fabrication Standards
- Advanced Architectural Sheet Metal
- Principles of Airflow
- Trade Math Three – Field Measuring and Fitting
- Construction Drawings and Specifications
- Indoor Air Quality
- Heating and Cooling Systems Design

NCCER Level Four

- System Startup and Shutdown
- Commercial and Industrial Refrigeration Systems
- Commercial Hydronic Systems
- Louvers, Dampers and Access Doors
- Fume and Exhaust System Design
- Troubleshooting Cooling
- Troubleshooting Heat Pumps
- Troubleshooting Electronic Controls
- System Balance
- Introductory Supervisory Skills

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.

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