

CEFA

Course descriptions

All course material used by CEFA is the Contren Learning Series. Nationally recognized credentials are earned upon successful completion of each module.

Core Curriculum (a pre-requisite to ALL craft courses)

72.5 Hours

Consists of covering Basic Safety, Introduction to Construction Math; Introduction to Hand Tools, Introduction to Power Tools, Introduction to Blueprints, Basic Rigging

Electrical

Level 1

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

Level 2

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

Electrical Continued

Level 3

Consists of: Load Calculations - Branch Circuits; 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

Level 4

Consists of: Load Calculations; Practical Applications of Lighting; Standby and Emergency Systems; Basic Electronic Theory; Fire Alarm Systems; Specialty Transformers; Advanced Motor Controls; HVAC Controls; Heat Tracing and Freeze Protection; Motor Maintenance, Part Two; High-Voltage Terminations/Splices; License Prep