

2020-2021 Apprenticeship Program

Electrical Level 4 Course Outline

This is the fourth and final year of the apprenticeship program. This year is based on reviewing the 2020 National Electrical Code (2020 NEC). This year is meant to prep apprentices to the Journeyman Licensure Exam. NEC Articles to be covered this year include the following:

- Article 100 Definitions
- Article 110 Requirements for Installations
- Article 200 Grounded Conductors
- Article 210 Branch Circuits
- Article 215 Feeders
- Article 220 Branch Circuit Calculations
- Article 220 Commercial, Dwelling, and Multifamily Calculations
- Article 225 Outside Branch Circuits & Feeders
- Article 230 Services
- Article 240 Overcurrent Protection/Taps
- Article 250 Grounding & Bonding
- Article 300 / Chapter 9 Tables Wiring Methods & Materials
- Article 310 Conductors for General Wiring
- Article 310 / Chapter 9 Tables Voltage Drop Review
- Article 312 Raceway and Box Fill
- Article 314 Chapter 9 Review
- Article 320-399 Chapter 3
- Article 400-427 Equipment for General Use
- Article 430 Motors & Motor Calculations / Motor Controls
- Article 440 AC & Refrigeration
- Article 445 Generators
- Article 450 Transformers and Calculations
- Article 455 Phase Converters
- Article 460 Capacitors
- Article 470 Resistors and Reactors
- Article 480 Storage Batteries
- Article 490 Equipment over 1000 Volts, Nominal
- Article 500-516 Hazardous Locations
- Article 517 Health Care
- Article 518-520 Assembly, Performance Areas
- Article 522-540 Carnivals, etc.
- Article 545 Manufactured Buildings
- Article 547 Agricultural
- Article 550-555 Mobile Homes & Parks
- Article 590 Temporary
- Article 600-695 Special Equipment
- Article 700-750 & 770 Special Conditions
- Article 760 Fire Alarm Systems
- Article 800 Communication Systems