

ELECTRICAL

Federally Approved Apprenticeship Program

Building the Industry Together, One Block at a Time

- OSHA Construction and Electrical Safety
- Electrical Safety and Personal Protective Equipment (PPE)
- Introduction to Hand and Power Tools
- Fall Protection
- Confined Space Entry
- Excavations
- Hazard Communications
- Basic Electrical Theory
- Electron Theory
- Digital Multimeter Principles
- Electromagnetism
- Circuits
- The Electrical System
- Power Factor and Efficiency
- **The National Electrical Code®**
- Introduction to the National Electrical Code
- Definitions, Requirements for Electrical Installations
- Grounded Conductors, Branch Circuits, Load Calculations, Outside Branch Circuits and Feeders, Services, Overcurrent Protection, and Overvoltage Protection
- Wiring Methods, Conductors, Cabinets, Cutout Boxes, and Meter Sockets, Boxes, Conduit Bodies, Fittings, Handholes, Cables, Raceways, and Cable Trays
- Flexible Cords and Cables, Fixture Wires, Lighting, Low-Voltage Lighting, Motors, Air Conditioning and Refrigeration, Generators, Transformers, & Storage Batteries
- Grounding and Bonding
- Hazard/Classified Locations, Commercial Garages and Motor Fuel Dispensing, Healthcare Facilities, Assembly Occupancies, Mobile/Manufactured Homes, and Temporary Installations
- Electric Signs, Manufactured Wiring Systems, Elevators, Electric Vehicle Charging Systems, Electric Welders, Audio Signal Processing, Information Technology Equipment, and Swimming Pools, Spas, Hot Tubs, Fountains, and Similar Installations
- Emergency, Legally Required, & Optional Standby Systems, Remote Control Signaling and Power-Limited Circuits, Fire Alarm Systems, Optical Fiber Cables & Raceways
- Communications Circuits, Radio and Television Equipment, and CATV and Radio Distribution Systems
- Solar Photovoltaic (PV) and Energy Storage Systems
- Basic Motor and Motor Control
- Electrical Estimating
- Leadership Training
- National Electrical Code and Electrical Fundamentals Review
- Exam Preparation—NEC Calculations
- OSHA Safety Review
- Electrical Theory and Electrical Calculations Review

LAB ACTIVITIES

3 and 4-Way switching

Box fill

GFCI Devices

Voltage Drop Calculations

Lighting Ballasts and Transformers

Blueprints/Take-offs

Flex Training

Conductor Ampacity

Conduit Bending

Raceway Sizing Calculations

Variable Speed Drives Fire

Motor Terminations

PROGRAM FEATURES

Federally registered apprenticeship program

4-year program

144 classroom hours per year

Combine theory & knowledge-based assessments

8000 on-the-job training hours

Hands-on training ensures you have the skills you need to succeed

PPE required for all classes

CLASS SCHEDULE

September through April

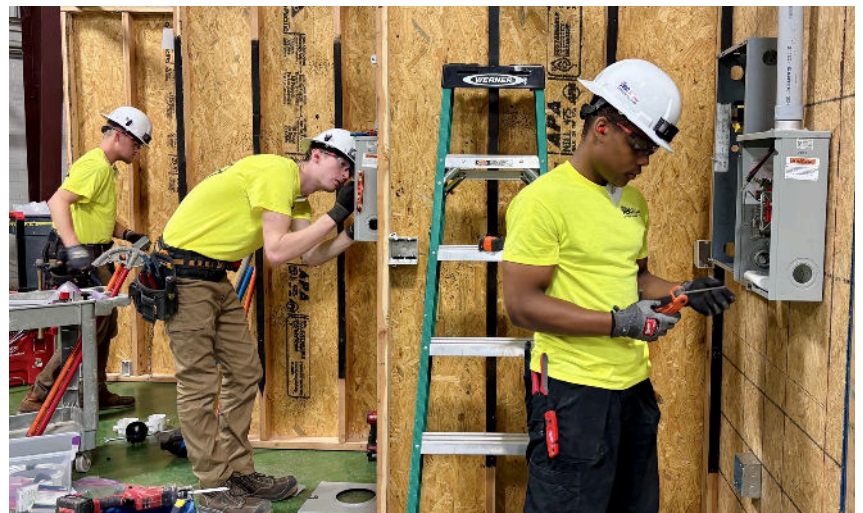
Week night classes from 5:00 - 8:00PM

Virtual Options Available

KANSAS CITY EASTERN MISSOURI

Enrollment period begins in July

Apply online at www.abcksmo.org/apply



ABC Heart of America utilizes Mike Holt Enterprises Certified Electrical Apprenticeship training curriculum for all electrical apprenticeship training classes.

CRAFT TRAINING

ADDRESS

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