



Electrical Construction Wiring



Date	February 6, 2026	Orientation Time	Registration 8:00 a.m. Orientation 8:30 a.m. (CLOSED to instructors)
Location	Dayton Electrical JATC 6550 Poe Ave. Dayton, Oh 45414	Contest Time	Immediately following orientation (OPEN contest)
Scope of Contest	The Electrical Construction Wiring event will allow each contestant the opportunity to perform in a practical work environment, demonstrating their acquired electrical wiring skills to construct an electrical wiring installation, using electrical blueprints, written specifications and verbal instructions based on the National Electrical Construction Wiring standards in accordance with the National Electrical Code.		
Testing	Yes. Contestants are required to complete a written test of questions formulated from the 2017 edition of NEC.		
Eligibility	1 contestant for every 50 paid members enrolled in program		
Clothing	Clothing Classification Guide – CLASS C		
Provided by Contestant	• Professional Resume – Typed Hardcopy • Emergency Medical Form (Contestants must have this to compete) • 10" pump pliers • 12" pump Pliers • 12" hacksaw with blade • 16 oz. claw hammer • Utility knife • 9" torpedo level • 6" long nose pliers • 9" side cut pliers • Flat head screwdriver • Phillips head screwdriver • One terminal screwdriver • 8" diag. cut pliers • Tape measure (no digital) • Tool pouch • Tool belt • T5 wire stripper • ½ " EMT bender • One VOM meter • Battery drill ONLY – No electric drills will be permitted • ¾" or ½" drill bit for wood studs • 2017 NEC • #2 pencil • 4' or 6' fiberglass ladder ONLY • Phillips bit for drill		

	• No toolboxes larger than 18" long 12" wide 12" tall permitted in the contest area • Breaker Lock and Lockout/Tag Out Equipment • <u>The following WILL NOT be tolerated and are grounds for disqualification from the competition:</u> ○ No smart watches, cellphones and/or other electronic devices in the contest area unless specifically stated in this document. These devices cannot be used as a calculator. ○ No contact with anyone outside of the contest area once the contest begins. ○ No inappropriate communication between contestants such as verbally degrading another contestant or informing another contestant of the skills/test prior to or during the competition. ○ No cheating on any portion of the contest. ○ The use of AI is strictly prohibited and will result in an automatic disqualification of the contestant.	
Contest Standards	Content Skilled Performance Standards ECW 2.0 - Apply knowledge of basic wiring theory according to NEC standards. ECW 7.0 - Install switch boxes and outlet boxes to meet NEC standards. ECW 9.0 - Rough in, connect and install electrical devices to meet NEC standards. ECW 10.0 - Install PVC and EMT conduit to meet NEC standards.	Aligned ODEW Construction Career Field Technical Standard Outcomes Outcome 4.1 Electrical Theory Outcome 4.2 Circuits Outcome 4.3 Codes and Regulations Outcome 4.4 Electrical Wiring Outcome 4.4 Electrical Wiring Outcome 4.4 Electrical Wiring Above Outcomes can be found in the following ODEW courses: 178007 Construction Electrical Systems 178008 Residential Electrical Systems 178009 Commercial and Industrial Construction Electrical Systems