



# Electrical



<b>Date</b>	February 23, 2024	<b>Orientation Time</b>	Registration 8:00 a.m. Orientation 8:30 a.m. (CLOSED to instructors)
<b>Location</b>	The Electrical Trades Center 947 Goodale Blvd. Columbus, Oh 43212	<b>Contest Time</b>	Immediately following orientation (OPEN contest)
<b>Scope of Contest</b>	The Electrical Construction Wiring event will allow each contestant the opportunity to perform a practical work environment. Each contestant will have the opportunity to use his or her 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.		
<b>Testing</b>	Contestants are required to complete a written test of questions formulated from the 2017 edition of NEC.		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with a hard sole or anti-slip properties (steel toes may be required – refer to <b>Provided by Contestant</b> section below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.		
<b>Provided by Contestant</b>	<ul style="list-style-type: none"><li>● Professional Resume – must be typed and physically produced as a hard copy</li><li>● Emergency Medical Form (Contestants must have this to compete)</li><li>● 10" pump pliers</li><li>● 12" pump Pliers</li><li>● 12" hacksaw with blade</li><li>● 16 oz. claw hammer</li><li>● Utility knife</li><li>● 9" torpedo level</li><li>● 6" long nose pliers</li><li>● 9" side cut pliers</li><li>● Flat head screwdriver</li><li>● Phillips head screwdriver</li><li>● One terminal screwdriver</li><li>● 8" diag. cut pliers</li><li>● Tape measure (no digital)</li><li>● Tool pouch</li><li>● Tool belt</li></ul>		

	<ul style="list-style-type: none"> <li>● T5 wire stripper</li> <li>● ½ “ EMT bender</li> <li>● One VOM meter</li> <li>● Battery drill ONLY – No electric drills will be permitted</li> <li>● ¾” or ½” drill bit for wood studs</li> <li>● 2017 NEC</li> <li>● #2 pencil</li> <li>● 4’ or 6 ‘ fiberglass ladder ONLY</li> <li>● Phillips bit for drill</li> <li>● No tool boxes larger than 18” long 12” wide 12” tall permitted in the contest area</li> <li>● Breaker Lock and Lockout/Tag Out Equipment</li> </ul>	
<p><b>Contest Standards</b></p>	<p><b>Content Skilled Performance Standards</b></p> <p><b>ECW 2.0</b> - Apply knowledge of basic wiring theory according to NEC standards.</p> <p><b>ECW 7.0</b> - Install switch boxes and outlet boxes to meet NEC standards.</p> <p><b>ECW 9.0</b> - Rough in, connect and install electrical devices to meet NEC standards.</p> <p><b>ECW 10.0</b> - Install PVC and EMT conduit to meet NEC standards.</p>	<p><b>Aligned ODE Construction Career Field Technical Standard Outcomes</b></p> <p><b>Outcome 4.1</b> Electrical Theory  <b>Outcome 4.2</b> Circuits  <b>Outcome 4.3</b> Codes and Regulations</p> <p><b>Outcome 4.4</b> Electrical Wiring</p> <p><b>Outcome 4.4</b> Electrical Wiring</p> <p><b>Outcome 4.4</b> Electrical Wiring</p> <p>Above Outcomes can be found in the following ODE courses:  178007 Construction Electrical Systems  178008 Residential Electrical Systems  178009 Commercial and Industrial Construction Electrical Systems</p>