



# Electrical Construction Wiring

<b>Date</b>	February 7, 2025	<b>Orientation Time</b>	Registration 8:00 a.m. Orientation 8:30 a.m. (CLOSED to instructors)
<b>Location</b>	Dayton Electrical JATC 6550 Poe Ave. Dayton, Oh 45414	<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>	Yes. 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>	Clothing Classification Guide – CLASS C		
<b>Provided by Contestant</b>	<ul style="list-style-type: none"><li>• Professional Resume – Typed Hardcopy</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><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></ul>		

	<ul style="list-style-type: none"> <li>• No toolboxes 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 ODEW 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><b>Outcome 4.4</b> Electrical Wiring</p> <p><b>Above Outcomes can be found in the following ODEW courses:</b>  178007 Construction Electrical Systems  178008 Residential Electrical Systems  178009 Commercial and Industrial Construction Electrical Systems</p>