



# Electrical Construction Wiring



<b>Date</b>	03/04/22	<b>Orientation Time</b>	8:30
<b>Location</b>	The Electrical Trades Center 947 Goodale Blvd. Columbus, Oh, 43212	<b>Contest Time</b>	9:00 – 12:00
<b>Contest Coordinator</b>	Julie Maciejewski	<b>Contact Information</b>	<a href="mailto:julie@etcjadc.org">julie@etcjadc.org</a> 614-463-5282
<b>Purpose</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, a practical conduit bending exercise and a hands-on installation of a conduit system, cabling system and wiring devices. Working from drawings and specification sheets, contestants are required to install an electrical system common with most residential projects. Judging is based on general workmanship, accuracy of layout and installation, and adherence to the current National Electrical Code and standard industry safe practices.		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	School lab uniform or industry appropriate clothing, work boots, safety glasses , hard hat		
<b>Provided by Contestant</b>	Professional Resume <ul style="list-style-type: none"><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></ul>		

	<ul style="list-style-type: none"> <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 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><i>Please review the 2021-2022 SkillsUSA National Tech Standards for detailed information on each skilled performance standard.</i></p>