

**WESTERN ARKANSAS APPRENTICESHIP PROGRAM at NORTHWEST ARKANSAS COMMUNITY COLLEGE --- Interior Electrician Work Process Schedule - Task Descriptions**

<b>Code</b>	<b>Description</b>	<b>Anticipated OJT Hours for Task</b>
<b>A</b>	Preliminary Work: <ol style="list-style-type: none"> <li>1. Learning the names and uses of the equipment used in the trade, such as kind, size and use of cable, wire boxes, conduits, and fittings, switches, receptacles, service switches, cutouts, etc.</li> <li>2. Learning names and uses of various tools used in assembling this material, care of these tools, and other instructions necessary to familiarize the apprentice with the material and tools of the trade.</li> <li>3. Safety</li> </ol>	600 hours
<b>B</b>	Residential and Commercial Rough Wiring: <ol style="list-style-type: none"> <li>1. Assisting in getting material from stockroom. Loading truck and unloading material and equipment on the job.</li> <li>2. Laying out the various outlets, switches, receptacles, and other details of the job from blueprints or by direction of the Superintendent of construction.</li> <li>3. Laying out the system with materials to be used, where they are to be placed, and other details as to how they shall be run.</li> <li>4. Cutting wires, cables, and conduit and raceway; threading and reaming conduit, boring and cutting chase under the direction of the journeyworker.</li> <li>5. Installing various kinds of wires, cables and conduit in accordance with requirements.</li> <li>6. Assisting journeyworker in pulling wires, attaching wires to fish tape, and keeping wires from kinds of abrasion.</li> <li>7. Connecting conductors to switches, receptacles, or appliances with proper methods of splicing, soldering and typing.</li> <li>8. Installing service switches or load center and sub feeders and fastening up these parts, running raceways and pulling in conductors under the direction of journeyperson electricians.</li> <li>9. Assisting in preparing lists of materials used, including names, number of pieces, or number of feet, etc., for office records.</li> <li>10. Loading unused material and cleaning up job area</li> </ol>	2,500 hours
<b>C</b>	Residential and Commercial finish Work <ol style="list-style-type: none"> <li>1. Connecting and setting switches, receptacles, plates, etc.</li> <li>2. Installing proper size and types of fuses for each circuit.</li> <li>3. Installing and connecting various kinds of fixtures.</li> <li>4. Tracing and polarity of conductors and devices.</li> <li>5. Testing the circuit for grounds and shorts and locating and correcting job defects.</li> <li>6. Assisting journeyperson in installing and completion of National Board of Fire Underwriters and special local regulations proper sizes of wires, services, conduits, etc.</li> </ol>	1,500 hours
<b>D</b>	Industrial Lighting and Service Installation <ol style="list-style-type: none"> <li>1. Installing rigid conduit, electric metallic tubing BX armored cable wire molds on all types of heavy electrical equipment and major-size service entrance installation</li> <li>2. Wiring all types (gas, oil, stoker, etc.)</li> <li>3. Installing wiring and controls for air conditioning</li> </ol>	2,000 hours
<b>E</b>	Troubleshooting <ol style="list-style-type: none"> <li>1. Repairing all kinds of electrical work.</li> <li>2. Checking out trouble and making repairs under supervision of electrician.</li> <li>3. Checking out trouble and making repairs without supervision.</li> </ol>	1,000 hours
<b>F</b>	Motor Installation and Control <ol style="list-style-type: none"> <li>1. Installing overcurrent devices,</li> <li>2. Checking for proper installation and rotation.</li> <li>3. Installing replacement motors.</li> <li>4. Analyzing motor circuits and troubleshooting.</li> <li>5. Installing emergency generators and controls.</li> <li>6. Installing pushbuttons, pilot lights, relays, timing devices, and interlocking controls.</li> </ol>	400 hours
<b>TOTAL</b>		<b>8,000 hours</b>