

WESTERN ARKANSAS APPRENTICESHIP PROGRAM at NORTHWEST ARKANSAS COMMUNITY COLLEGE

Residential Wireworker Electrician Work Process Schedule - Task Descriptions

Code	Description	Anticipated OJT Hours for Task
A	PROJECT LAYOUT AND PLANNING 1. Reading and interpreting blueprints and specifications 2. Coordination between crafts, general contractor and home owner 3. Layout services and branch circuits	100 hours
B	UNDERGROUND INSTALLATIONS 1. Trenching and ditch digging 2. Direct burial 3. Installing PVC/Rigid conduit 4. Installing grounding electrode systems	300 hours
C	THIN WALL CONDUIT RACEWAY SYSTEMS 1. Fastening and supporting devices 2. Conduit Fabrication 3. Installation of conduit, fittings and boxes	300 hours
D	RIGID CONDUIT RACEWAY SYSTEMS 1. Fastening and supporting devices 2. Conduit Fabrication 3. Installation of conduit, fittings and boxes	300 hours
E	INSTALLING SERVICES AND PANELS 1. Mounting devices 2. Breaker Installation 3. Fuse Installation 4. Terminations and Bonding	700 hours
F	INSTALLING, SPLICING AND TERMINATING WIRES AND CABLES 1. Installing Non-metallic sheath cable 2. Establishing temporary power 3. Feeders and branch circuits 4. Control wiring 5. Splices, taps and terminations	1,000 hours
G	LIGHTING SYSTEM INSTALLATION 1. Installing outlet boxes and conductors 2. Installing fixtures 3. Control devices	500 hours
H	TESTING AND TROUBLESHOOTING 1. Services, motors and branch circuits 2. Checking circuit continuity 3. Identifying fault current to ground 4. Certifying system operation 5. Repair and maintenance 6. Ground verification	100 hours
I	FIRE ALARM INSTALLATION 1. Blueprint and specification interpretation 2. Layout and circuit installation 3. Control panel and device installation 4. Programming and testing	100 hours
J	CONTROL SYSTEM INSTALLATION 1. Blueprint and specification interpretation 2. Layout and circuit installation 3. Distributed control	100 hours
K	SECURITY SYSTEM INSTALLATION 1. Blueprint and specification interpretation 2. Layout, box and circuit installation 3. Terminations 4. Testing	75 hours
L	INSTALLING COMMUNICATION AND SOUND SYSTEMS 1. Blueprint and specification interpretation layout 2. Conduit and box installation 3. Installing panels and network devices 4. Circuit installation 5. Terminations and testing	75 hours
M	INSTALLING AND TERMINATING TRANSFORMERS 1. Mounting and Installation 2. Primary and secondary terminations 3. Testing and troubleshooting	100 hours
N	SERVICE AND TROUBLESHOOTING 1. Testing, analysis and repair of: motors, transformers, electrical devices, electronic devices, magnetic devices, lighting and power circuits, control circuits and devices	100 hours
O	MATERIAL HANDLING AND PRE-FABRICATION 1. Material/equipment awareness 2. Fabricating for field installation	100 hours
P	OTHER SPECIALIZED AREAS	50 hours
TOTAL Minimum Hours		4,000 hours