

INSIDE JOURNEYWORKER WIREMAN
 (Existing Title: Electrician)
 O*NET-SOC CODE: 47-2111.00
 RAPIDS CODE: 0159

WORK PROCESS	APPROX. HOURS OJT
A. PROJECT LAYOUT AND PLANNING	200
Reading and interpreting blueprints and specifications	
Coordination between crafts, engineers and architects	
Layout feeders, risers and branch circuits	
B. UNDERGROUND INSTALLATIONS	300
Trenching and ditch digging	
Direct Burial	
Installing PVC/Rigid Conduit	
Installing grounding electrode systems	
C. THINWALL CONDUIT RACEWAY SYSTEMS	1200
Fastening and supporting devices	
Conduit fabrication	
Installation of conduit, fitting and boxes	
D. RIGID CONDUIT RACEWAY SYSTEMS	800
Fastening and supporting devices	
Bender setup	
Conduit fabrication	
Installation of conduit, fittings and boxes	
E. INSTALLING SERVICES, SWITCHBOARDS AND PANELS	500
Mounting devices	
Breaker installation	
Terminations	
F. FLOOR DUCT INSTALLATION	200
Transit/Grade establishment	
Installing duct and fittings	
Core drilling and outlet installation	
G. MOTOR CONTROL CENTER INSTALLATION	100
Rigging and mounting	
Terminating feeders, branch circuits and control wiring	
H. INSTALLING, SPLICING & TERMINATING WIRES AND CABLES	1200
Establishing temporary power	
Feeders and branch circuits	
Control wiring	
Splices, taps and terminations	
I. CABLE TRAY INSTALLATION	150
Fabrication	
Installing support devices	
Installing cable tray and covers	

WORK PROCESS

APPROX. HOURS OJT

<p>J. LIGHTING SYSTEM INSTALLATION</p> <ul style="list-style-type: none"> Installing outlet boxes and conductors Installing fixtures Control devices 	<p>1000</p>
<p>K. TESTING AND TROUBLESHOOTING FEEDERS, MOTORS AND BRANCH CIRCUITS</p> <ul style="list-style-type: none"> Checking circuit continuity Identifying fault current to ground Meggering and Hi Potting Certifying system operation Repair and maintenance Ground Verification 	<p>100</p>
<p>L. FIRE ALARM INSTALLATION</p> <ul style="list-style-type: none"> Blueprint and specification interpretation Layout and circuit installation Control panel and device installation Programming and testing 	<p>300</p>
<p>M. MOTOR INSTALLATION</p> <ul style="list-style-type: none"> Rigging and setting Alignment Circuiting and Terminations Testing 	<p>400</p>
<p>N. CONTROL SYSTEM INSTALLATION</p> <ul style="list-style-type: none"> Blueprint and specification interpretation Layout and circuit installation Distributed control 	<p>200</p>
<p>O. INSTALLING AND PROGRAMMING PROGRAMMABLE LOGIC CONTROLLERS</p> <ul style="list-style-type: none"> Module installation Control wiring and devices Programming 	<p>100</p>
<p>P. INSTALLING INSTRUMENTATION AND PROCESS CONTROL SYSTEMS</p> <ul style="list-style-type: none"> Blueprint and specification interpretation Layout and installation Calibration 	<p>250</p>

Q. SECURITY SYSTEM INSTALLATION	100
Blueprint and specification interpretation	
Layout	
Box and circuit installation	
Terminations	
Testing	
R. INSTALLING SOUND AND COMMUNICATION SYSTEMS	150
Blueprint and specification interpretation	
Layout	
Conduit and box installation	
Installing panels and network devices	
Circuit installation	
Terminations and testing	
S. INSTALLING AND TERMINATING TRANSFORMERS	100
Rigging and mounting	
Primary and secondary terminations	
Testing and troubleshooting	
T. INSTALLING FIBER OPTIC CABLE	100
Equipment layout	
Installing cable	
Polishing and terminating	
Testing and verifying	
U. WELDING AND BRAZING	50
Machine setup	
Fabrication	
Welding, grinding and finishing	
V. SERVICE AND TROUBLESHOOTING	100
Testing, analysis and repair of: motors, transformers, electrical devices, electronic devices, magnetic devices, lighting and power circuits, equipment and machinery, control circuits and devices.	

WORK PROCESS

APPROX. HOURS OJT

W. FABRICATION

100

- Material/equipment awareness
- Fabricating for field installation

X. SAFETY AWARENESS & OTHER SPECIALIZED AREAS

300

- ALTERNATIVE ENERGY SOURCES
- Safety Orientation

TOTAL MINIMUM HOURS OF OJT

8,000