

ELECTRICIAN (CONSTRUCTION)

Work Processes	Approximate Hours	Monthly OJT Hours
1. Preliminary Work a) 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. b) Learning names and uses of the 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.	600	_____
2. Residential and Commercial Rough Wiring a) Assisting in getting the material from stockroom. b) Loading truck and unloading material and equipment on the job. c) Laying out the various outlets, switches, receptacles and other details of the job from blueprints or by direction of the superintendent of construction. d) 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. e) Cutting wires, cables, conduit and raceway, threading and reaming conduit, boring and cutting chases under the direction of the journeyman. f) Installing various kinds of wires, cables, and conduits in accordance with requirements. g) Assisting journeyman in pulling wires, attaching wires to fishtape, and keeping wires from kinks or abrasions. h) Connecting conductors to switches, receptacles, or appliances with proper methods of splicing, soldering and taping. i) Installing service switches or load center and subfeeders and fastening up these parts, running raceways and pulling in conductors under the direction of journeyman electricians. j) Assisting in preparing lists of materials used, including names, number of pieces or number of feet, etc., for the office records. k) Loading unused material and cleaning up job area.	2500	_____
3. Residential and Commercial Finish Work a) Connecting and setting switches, receptacles, plates, etc. b) Installing proper size and types of fuses for each conduit. c) Installing and connecting various kinds of fixtures. d) Tracing the polarity of conductors and devices. e) Treating the circuit for grounds and shorts and locating and correcting job defects. f) Assisting journeyman in installation and completion of work in accordance with the rules and regulations of the National Board of Fire Underwriters and special local regulations—proper sizes of wires, service, conduits, etc.	1500	_____
4. Industrial Lighting and Service Installation a) Installing rigid conduit, electric metallic tubing, BX armored cable wiremolds on all types of heavy electrical equipment and major size service entrance installation.	2000	_____

- b) Wiring all types (gas, oil, stoker, etc.) of heating equipment.
- c) Installing wiring and controls for air conditioning.

5. **Troubleshooting** 1000 _____
 a) Repairing all kinds of electrical work.
 b) Checking out trouble and making repairs under supervision of electrician.
 c) Checking out trouble and making repairs without supervision.

6. **Motor Installation and Control** 400 _____
 a) Installing over current devices
 b) Checking for proper installation and rotation.
 c) Installing replacement motors.
 d) Analyzing motor circuits and troubleshooting.
 e) Installing emergency generators and controls.
 f) Installing pushbuttons, pilot lights, relays, timing devices and interlocking controls.

Total Hours 8000 _____

Apprentice: _____ City of Apprentice Training: _____
(please print)

Company Name: _____ Month and Year: _____

Supervisor's Signature: _____ Supervisor's Name _____
(please print)

Apprentice Progress on Job is: Excellent _____ Good _____ Fair _____ Poor _____