

## **JOB TITLE: APPRENTICE ELECTRICIAN THIRD YEAR**

### **SCOPE OF WORK:**

- A. Work will consist of installation, alterations, additions and/or repairs of electrical systems, conductors and associated materials and equipment within the commercial, industrial and residential electrical industry. Must complete 2,000 hours of on-the-job training each year of apprenticeship.
- B. **Must attend 144 hours of classroom instruction in each year of apprenticeship training and maintain a minimum passing grade of 70.** There are four years of apprenticeship training and study.
- C. **Must be BAT registered.**

### **RESPONSIBILITIES:**

Demonstrate basic knowledge of conduit bending and wire pulling. Perform simple tasks, install all sizes of conduit with general supervision. Demonstrate basic knowledge of blueprint reading. Perform assigned tasks in a safe manner and demonstrate proper care of tools and equipment.

- 1. Terminate junction boxes
- 2. Pull wire
- 3. Install conduit - Branch
- 4. Install conduit - Feeder
- 5. Fixture connections and rough-in
- 6. Underground rough-in methods
- 7. Possess skills of first and second year apprentice
- 8. Attend a 4 hour instructional class one night each week.
- 9. Begin to demonstrate leadership skills in training of 1<sup>st</sup> & 2<sup>nd</sup> Year apprentices.
- 8. Maintain Eckstine Electric quality of work at all times.

### **POSITION REQUIREMENTS:**

**LICENSES:** Current Driver's License and have own transportation, (most job sites are not always served by public transportation).

Electrical - None

**EDUCATION:** High School Graduate, holder of GED, or equivalent training. Must have completed requirements for second year apprentice.

**EXPERIENCE:** 2 years of previous electrical experience (commercial/industrial)

### **WORKING CONDITIONS:**

- 1. Job requires working in all elements, depending on job location, inside and outside, time of year, heat, cold, rain or snow.
- 2. Must be able to utilize construction site sanitary facilities (Porta-Johns).
- 2. Employee must have required personal tools with him at all times (waist tool belt as worn weighs approximately 30 lbs.)
- 4. Work from all type ladders up to 14', "A" frame ladders and all size extension ladders: carry and relocate up to 12' step ladder by one's self.
- 5. Employee's personal weight and personal tools cannot exceed weight limit of ladder (Class 1 - 250 lbs., Class 2 - 300 lbs.).
- 6. Perform work at various heights, up to 90' from ladders, scaffolds, aerial lifts, cat walks or other safe work areas.
- 7. Work in restricted areas (switchgear room, manholes, utility tunnels, crawl spaces, attics).
- 8. Wear personal protective equipment (hard hat, safety glasses at all times, respirator when required).

9. Repetitive use of arms, hands and fingers.
10. Able to work 8 hours per day, 40 hours per week, overtime as required and night shifts.

**SKILLS:**

1. Positively identify colors of wires.
2. Comprehend reading and drawing prints and schematics of same
3. Bend conduit by hand with hand benders.
4. Must use all power tools, saws, threaders, wire tuggers, hydraulic benders, and knockout punches.
5. Capable of digging trenches, either by use of hand tools or power equipment.
6. Practice and comprehend safe work procedures as outlined in Company Safety Policy Handbook, Haz-Com Policy and Lockout/Tagout Policy.
7. Operate equipment, trenchers, back hoe, lift trucks in a safe manner.
8. Operate two (2) handed tools/equipment, cable cutters, hammer drills, compression tools, jack hammers.
9. Operate company trucks with manual and automatic transmission.
10. Read and interpret maps, instructional manuals, specifications, work site directions, blue prints and written instructions.
11. Operate and work form mechanical personnel lifts (electric or gas powered).

**PHYSICAL FUNCTION:**

1. Must be able to bend, stoop, squat, crawl, climb, kneel, balance, push, pull and reach over head.
2. Lift 51 pounds.
3. Tolerate continual movement on your feet.
4. Climb ladders (all types).
5. Complete overhead work for full day assignments.
6. Must be able to make transition from employee parking area or street into construction work areas and to gain access to all levels of the building, even if the only means of access is by OSHA approved site construction ladder or stairs still under construction, but acceptable for use.
7. Possess good vision (normal or corrected).
8. Responsible for securing tools and materials from storage areas to complete their assigned tasks.

**REQUIREMENTS FOR PROMOTION FROM THIS POSITION:**

Successfully Complete Third Year Apprentice.

**PROMOTIONAL OBJECTIVES:** Fourth Year Apprentice. The level of each apprentice is determined as specified in the Apprenticeship Standards which govern the program.