



Journeyman Electrician

Summary

Journeyman electricians are responsible for the installation, repair, and maintenance of electrical systems. They work with blueprints to figure out how the systems are supposed to work. Then, they use that information to troubleshoot electrical problems and come up with solutions for them. A journeyman electrician needs to have a deep familiarity with various types of electrical systems, fixtures, and components. They have to be able to repair electrical uses with a variety of tools and techniques. Their work also requires them to follow OSHA safety requirements and to safely use ladders, scaffolding, and platforms.

Primary Responsibilities

- Install electrical material.
- Test electrical systems using tools that include voltmeters, oscilloscopes and ohmmeters to determine where issues may be occurring, the safety of the system and to ensure compatibility.
- Document actions, testing results, observations, final diagnosis of the situation and steps taken to resolve issues for each job or situation.
- Repair electrical issues by replacing or installing components, wiring or devices.
- Determine the steps necessary to assess an electrical situation using testing devices, blueprints and maps.
- Maintain a safe work environment by adhering to all company guidelines and OSHA safety requirements and also through reporting violations of policies, procedures and guidelines to immediate supervisor.
- Use ladders, scaffolding, platform and lifts to work on electrical systems.
- Maintain equipment to ensure it is in good condition and can operate or be used safely; report any issues to PM/Maintenance team.
- Locates, diagnoses and repairs electrical/instrumentation malfunctions.
- Inspects and tests electrical/instrumentation equipment as required.
- Disassembles malfunctioning electrical/instrumentation equipment, troubleshoots and tests mechanisms and circuitry for defects.
- Operates programmable controllers, distributive controls and configures controllers for required troubleshooting.
- Assists with plan layouts, running conduit, wiring and tubing new installations.
- Assists with developing and carrying out preventative maintenance programs.
- Fully utilize all skills and abilities to work in a flexible environment.
- Trains apprentices as required.
- Performs general housekeeping duties.
- Performs other duties as assigned by supervision.
- Complies with all electrical/NFPA70e safe work practices.
- Other duties as required.

Qualifications

- Must have completed State Apprenticeship Program or equivalent.
- Proficiency with the National Electrical Code and local codes.
- Valid driver's license and clean driving record.
- Ability to read blueprints and schematic diagrams.
- Must pass criminal background check and drug test.
- Valid state license.
- Ability to work independently, be able to prioritize work, be a self-starter.
- Ability to effectively communicate and work in a team environment.
- Previous experience working on commercial electrical systems.
- Able to pass Basic Skills Test, Multi-Craft Aptitude Test, Color Identification Test and Drug Screen.

Skills Required

A Journeyman must have a high mechanical aptitude and be good with their hands. They must be able to follow direction, as most jobs begin with a blueprint that details where electrical devices need to be installed. Also, would need to know where to look for issues and be a capable problem solver. Should be organized, analytical and provide the necessary strength and stamina for a job that involves occasional heavy lifting and flexibility. On top of those things, apprentices need to be able to act on the instructions from a supervisor and work well alone or as members of a team.

Physical Job Description

Job Title:	Electrical Journeyman
Typical Working Conditions: (Describe environment including exposure to heat, cold, fumes, chemicals, allergens, mold, etc.)	Electricians' work is often strenuous. They may stand for extended periods and frequently work on ladders and scaffolds. Their working environment varies, depending on the type of job. Some may work in dusty, dirty, hot, or wet conditions, or in confined areas, ditches, or other uncomfortable places. Electricians risk injury from electrical shock, falls, and cuts; to avoid injuries, they must follow strict safety procedures. Some electricians may have to travel to jobsites.
Equipment Used: (List all manual and automated equipment used in the course of performing essential functions.)	Electricians use hand tools such as screwdrivers, pliers, knives, and saws. They also use power tools such as band saws, sawzalls and drills and testing equipment such as voltmeters, ammeters, and ohmmeters. Must work with radiation-type measurement devices.
Essential Physical Tasks: (List all physical tasks encountered in performing	Identifying and separating wires by color. Digging trenches and working in trenches. Breaking concrete with jackhammer or other tools. Assisting in the moving, positioning and fastening of heavy electrical equipment. Lifting, positioning, and fastening objects such as light fixtures, wire, conduit, junction boxes, motors, and other equipment. Carrying material and tools from location to location or floor to floor. Working from A-Frames, extension ladders and scaffolds at various heights. Must climb and work in high places (70' – 100' elevation). Must do considerable amount of bending, stooping, reaching, turning, twisting. Working under hot and cold weather conditions, indoors and outdoors. Lifting and working with tools and equipment above head. Able to regularly lift 50-70 pounds.