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Electrician 11

WG-2805-11

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INTRODUCTION

This position involves the installation, maintenance, troubleshooting, and repair of electrical wiring systems and associate fixtures, controls, and equipment in industrial, institutional, office, and residential buildings.

MAJOR DUTIES AND RESPONSIBILITIES

Involves nonstandard industrial or research and development applications which lack clear precedent and require extensive adaption of methods. The electrical systems which support the research projects or tests are regularly subjected to extreme demands for accuracy of control motion, etc., under severe conditions such as high speed, temperature, pressure and pressure distortions. The electrician fabricates, installs, modifies, and troubleshoots specialized electrical control or monitoring systems to support research projects or tests.

FACTOR LEVELS

1. Skill and Knowledge - Knowledge of construction, installation, operation, and troubleshooting of sophisticated circuitry and controls associated with unique projects. Knowledge and application of electrical principles, materials, and safety standards. Ability to independently plan, lay-out, set-up, determine proper materials, procedures, equipment and tools, and to develop solutions to unusual or unique problems. Skill in using non-standard tools and equipment and in determining non- standard uses for standard tools and equipment to complete highly complex, unusual tasks. May require knowledge of complex shop math (i.e., algebra and trigonometry).
2. Responsibility - Receives assignments orally or by work orders which require independent review and interpretation. Determines materials, tools, equipment and procedures to be used, lays out work, sets up equipment in order to complete assignments efficiently and independently. Observes all on-the-job safety measures. Improvises, develops new procedures, solves unusual problems and substitutes for inappropriate or inadequate materials, tools, equipment and procedures. Supervisory review of completed work for timeliness and for meeting accepted trade standards.
3. Physical Effort - Work requires heavy physical exertion such as frequent climbing of ladders or scaffolds, crouching or crawling in restricted areas, and lifting and carrying of heavy objects weighing frequently up to 20 and occasionally up to 40 pounds.
4. Working Conditions - The work environment involves moderate risks or discomforts which requires special safety precautions such as those required when working around moving parts or machinery, working in bad weather, possible exposure to injury from falling, electrical shock, and burns.

IV. UNIQUE POSITION REQUIREMENTS

(Last Updated: October 24, 1994)

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