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Electrician (High Voltage) 10

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NOTE; THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

INTRODUCTION

This position involves the installation, test, repair, and maintenance of high voltage (600+) electric power controlling equipment and/or distribution lines.

II. MAJOR DUTIES AND RESPONSIBILITIES

Dismantles, repairs, cleans and assembles circuit breakers and switch gears. Installs, alters, and replaces generation and distribution equipment in substations, transformer vaults, or distribution centers. Troubleshoots distribution circuits and generating and controlling equipment to locate and correct the causes of outages and improper operation. Makes emergency cutouts and substitutions of power lines and equipment, sometimes working on distribution systems when they are hot.

III. FACTOR LEVELS

1. Skill and Knowledge - Knowledge of electric power generating and distribution equipment (i.e., generators, transformers, switches, circuit breakers, recording instruments and control systems) and high voltage electrical theory, procedures, materials, and safety standards, and general mechanical knowledge and skills. Skill to replace and adjust mechanical contacts and tripping and time-delay intervals of circuit breakers and relays, to troubleshoot and repair equipment, to read and interpret circuit diagrams and electronic schematics, to use test equipment, and to diagnose problems and determine corrective action. Some jobs may require knowledge of electronic principles relative to electronic control circuitry and some may involve test, repair, and maintenance of electric generating equipment.
2. Responsibility - Receives assignments from supervisor, plans work, determines nature of maintenance or repair needed, determines effects alterations will have on total system, and ensures lines and equipment function properly. Independently works from blueprints, schematics, etc., to determine materials, tools, equipment and procedures, and to layout work and setup equipment. Reports special occurrences such as emergency outages and corrective actions taken to maintain service, unusual problems, etc., to the supervisor. Supervisory review of completed work.
3. Physical Effort - The 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 more than 50 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 with contagious diseases or irritant chemicals.

THIS POSITION IS EXEMPT FROM COVERAGE UNDER THE FLSA.

IV. UNIQUE POSITION REQUIREMENTS

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