

UTILITY PLANT TECHNICIAN

NATURE OF WORK

This is technical work in the maintenance of electronic and electrical equipment, and of electrical power and control equipment operating at 120v to 15,000v.

Work involves responsibility for assisting in the repair, maintenance and servicing of a wide variety of both conventional and specialized electrical power and control equipment in a utility plant. Work is inspected while in progress and reviewed upon completion by a technical superior for results obtained. Work is performed with limited supervision.

EXAMPLES OF WORK PERFORMED

Assists in performing utility plant electrical maintenance and repair tasks on electrical power and control equipment rated 120v to 15,000 v. using proper safety procedures including equipment tag-out procedures.

Performs routine preventive maintenance tasks on utility plant electrical power and control equipment; makes recommendations for updating procedures for the preventive maintenance program.

Assists in troubleshooting electrical power and associated control malfunctions, analyzes problems, prepares list of parts and materials needed, and makes repairs.

Assists in performing electrical power repairs in accordance with work order instructions, equipment manuals, electrical power schematics, schematic diagrams and engineering drawings.

Sketches diagrams for installation of wiring and controls in remote control panels; installs wiring and controls for utility electrical equipment; installs additional circuits and upgrades electrical systems.

Conducts tests on utility equipment using ammeter, volt-ohmmeter, flow and pressure transmitter, tone control tester and related equipment; checks equipment for defects and makes necessary repairs.

Maintains inventory of electrical and instrumentation tools, supplies and equipment; completes work orders, time and repair records.

Checks, repairs and maintains battery chargers and batteries; inspects and maintains small and large motors.

Assists in coordinating electrical power repair/maintenance with mechanical repair/maintenance and plant operations through supervisor, as needed.

Assists in clean-up of general maintenance work areas and areas where repair and maintenance tasks have occurred.

Performs related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Knowledge of methods, techniques and materials required for testing, inspecting and repairing motors, telemetering equipment and control devices.

Knowledge of solid state and conventional electronic component systems and equipment.

Ability to sketch and interpret diagrams and schematics.

Ability to operate electrical testing equipment including ammeter, flow and pressure transmitter, calibrator, station simulator, volt-ohmmeter and related equipment required in order to conduct tests on utility equipment.

Ability to communicate both orally and in writing.

Ability to establish and maintain effective working relationships with coworkers.

Skill in the use of hand tools, shop and power equipment.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from a senior high school or equivalent supplemented by course work in electrical repair plus experience in the maintenance and repair of electrical equipment.

MINIMUM QUALIFICATIONS

Graduation from a senior high school or equivalent plus some experience in electronic and electrical repair; or any equivalent combination of training and experience which provides the desirable knowledge, abilities and skills.

NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is necessary for the satisfactory performance of assigned duties.

Possession of a valid apprentice Electrical License or ability to acquire same within six months of hire.