

ELECTRICIAN

PURPOSE: Perform skilled electrical work in the installation and repair of wiring, apparatus, and equipment for light, heat, and power.

FUNCTIONAL AREAS:

1. Perform skilled electrical work in the installation and repair of wiring, apparatus, and equipment for light, heat, and power.
 - * A. Perform work to bend, shape and install conduits, including plastic mold and wire mold.
 - * B. Install transformers, control boards, electronic circuits, coil circuit breakers, voltage regulators, switches, fuses, and related electrical equipment.
 - * C. Perform additions, extensions, or alterations in electrical installations for power, light, heat, and appliances in buildings and on grounds.
 - * D. Repair and test a variety of electrical circuits, machinery, transformers, meters, and recording instruments.
 - * E. Install and connect motors, lights, controllers, voltage regulators, and racks.
 - * F. Inspect and maintain electrical equipment and motors.
 - * G. Perform work to erect ladders and scaffolding in compliance with established safety standards.
 - * H. Estimate costs for electrical installation or repair projects.
 - * I. Install, maintain, and repair street lighting systems.
2. Organize and direct the activities of assigned personnel.
 - * A. Determine priorities and coordinate schedules to ensure completion of work.
 - * B. Monitor work sites to ensure compliance with established methods, guidelines and procedures.
 - * C. Train assigned personnel in the correct and safe methods and procedures necessary to perform their work.
3. Perform other related work as required.
 - * A. Investigate complaints related to the proper operation of electrical systems.
 - * B. Prepare work sites by setting up appropriate barricades, warning devices, and equipment.
 - * C. Maintain work areas by snow shoveling and sweeping.
 - * D. Perform work to clean tools, equipment, materials, and work areas.
 - * E. Perform work to trench for the placement of underground electrical cables.
 - * F. Perform work to locate underground electrical systems.

JOB REQUIREMENTS

License Requirements:

- ◆ A. Possession of a Minnesota Class A Journey person Electrician's License
- ◆ B. Possession of a valid Minnesota Driver's License or privilege upon appointment and thereafter.

Knowledge Requirements:

- ◆ A. Knowledge of the National Electrical Code.
- ◆ B. Knowledge of state and local regulations governing electrical wiring.
- ◆ C. Knowledge of precautionary, safety, and fire prevention methods involved in electrical work.
- ◆ D. Knowledge of applicable safety regulations.

Skill Requirements:

- ◆ A. Skill in the use of the tools, equipment, materials, methods, and practices used in the installation, maintenance, and repair of electrical lines, equipment, and devices.
- ◆ B. Skill in inspecting, diagnosing, and repairing malfunctioning electrical equipment.
- ◆ C. Skill in performing mathematical calculations in order to size wire and determine current load.
- ◆ D. Skill in reading and interpreting blueprints and schematic drawings.

Ability Requirements

- ◆ A. Ability to establish and maintain effective working relationships with co-workers, supervisors, and the general public.
- ◆ B. Ability to communicate effectively in both written and oral form.
- ◆ C. Ability to plan, assign, and supervise the work of assigned personnel.
- ◆ D. Ability to work outside in inclement weather.
- ◆ E. Ability to work on-call after completion of regular assigned work hours.
- ◆ F. Ability to attend work on a regular basis.
- ◆ G. Ability to obtain a Minnesota Class "B" Commercial Driver's License or equivalent.
- ◆ H. Ability to work at heights up to 80 feet.
- ◆ I. Ability to stand, walk, kneel, crouch, and stoop, as needed to perform work activities.
- ◆ J. Ability to frequently push, pull, lift to move and carry equipment weighing up to 50 pounds and occasionally up to 100 pounds.

* Essential functions of the job.

- ◆ Job requirements needed on the first day of employment.

Anlst: CT	Class: 5205	Union: Basic	Pay: 29	CSB: 20090303
CC: 20090413	Res: 09-0198R	EEOC: Skilled Craft	EEOF: Admin/Finance	WC: 5190