

Code: 2443

Title: TRAFFIC CONTROL ELECTRICAL INSPECTOR/ELECTRICIAN

SUMMARY: Inspects the construction of electrical traffic control installations and installing, maintaining and repairing electrical traffic control devices; and performs related work as required.

DUTIES/RESPONSIBILITIES: (Work assignments may vary depending on the department's needs and will be communicated to the applicant or incumbent by the supervisor.)

Inspects the construction of traffic signals, street lights, permanent traffic counting stations, and aviation communication and navigational electrical devices to insure compliance with appropriate specifications and standards;

Reviews and interprets approved construction plans and electrical schematics as a basis for conducting inspection or installation activities for traffic control devices;

Meets with representatives of contractors, utility companies and appropriate County staff to insure coordinated work efforts or to resolve problems;

Insures that traffic control plans and safety standards at construction sites are met;

Maintains daily records of work performed and compiles post-construction project documentation;

Installs, maintains, assembles, and repairs traffic signals, street lights, aviation communication and navigational electrical devices, and other transportation related electrical devices;

Maintains inventory records, determines equipment and material needs, and recommends or purchases required items;

Drives and operates aerial lift trucks to maintain and repair transportation related electrical devices;

Performs emergency diagnosis and repairs on a rotating, on-call basis, which may require the repair of electrical traffic control equipment, the removal and installation of electronic control cabinet components (such as controllers, conflict monitors and load switches), using an aerial lift truck to work at heights of 50 feet, and may require working in adverse weather conditions;

Maintains temporary traffic control devices while working within active roadways to insure compliance with traffic safety regulations.

KNOWLEDGE AND SKILLS:

Knowledge of:

- electrical theory, principles and applications;
- the practices, methods, tools and materials of industrial electrical installation, maintenance and repair;
- the National Electric Code;
- the procedures, equipment and tools needed for the repair and installation of traffic signal and illumination devices;
- the occupational hazards and safety precautions of the trade, using both high and low voltage;
- Pima County Department of Transportation specifications;
- electrical construction inspection procedures and techniques.
- procedures involved in the review of engineering plans and electrical schematics;
- solid state electronics;
- Arizona Department of Transportation specifications;
- construction zone traffic control;
- mathematics.

Skill in:

- installing, maintaining and repairing industrial electrical systems and equipment;

- installing, maintaining and repairing traffic signals and lighting systems and related equipment, parts and circuitry;
- reading, interpreting and applying traffic control and general construction blueprints and electrical schematics;
- inspecting and detecting work or construction not in compliance with appropriate specifications and standards;
- establishing and maintaining effective working relationships;
- communicating effectively, both orally and in writing;
- taking accurate field notes;
- performing mathematical computations.

MINIMUM QUALIFICATIONS: EITHER:

(1) One year of experience in electrical traffic control construction inspection.

OR:

(2) Two years experience in the installation, maintenance and repair of traffic control devices.

OTHER REQUIREMENTS:

Licenses and Certificates: A valid Arizona class A or B Commercial Driver's License (CDL) is required within 6 months of appointment. Failure to maintain the required license shall be grounds for termination.

Physical/Sensory Requirements:

Physical and sensory abilities will be determined by position.

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Pima County

06/09/96
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