ELECTRONICS TECHNICIAN 1

Nature of Work
Under direct supervision, performs beginning level electronic and telecommunication work or assists a higher level electronics technician with the installation, maintenance, and repair of electronic and electrical equipment for highway illumination, traffic control, traffic signal, traffic counting, materials testing, vehicle weighing, and/or law enforcement. Travel may be required. May be required to be on-call. Performs related work as required.

Distinguishing Characteristics
This classification is distinguished from the other classifications in the Electronics Technician class series by the assignment of beginning or training level work wherein an employee, under direct supervision, is oriented to electronic and telecommunications work and trained to perform those duties through an on-the-job training program.

Examples of Work
Assists in the inspection of electronic or telecommunication equipment; such as, traffic signal systems; two-way base, portable, and mobile radio stations/systems; communications towers; video recording systems; radar; sirens; or lighting systems using various diagnostic equipment and meters to determine malfunctions.
Assists in the repair and maintenance of traffic signal systems; two-way base, portable, and mobile radio stations/systems; communication towers; video recording systems; radar; sirens; lighting systems; or other electronic/electrical equipment in the field or shop.
Repairs and calibrates electronic equipment, materials testing devices, and scales at the central laboratory or in the field by using oscilloscopes, digital multimeters, and various hand tools according to the specifications of the manufacturer's manual.
Cleans, repairs, and calibrates permanent and portable electronic, spring-type, or hydraulic scales of weight enforcement crews using voltage, or ohm meters, hand tools, and cleaning materials according to technical requirements of the National Bureau of Standards and the State Division of Labor.
Installs and/or erects new or repaired electronic or telecommunication equipment; such as, traffic signal systems; two-way base, portable, and mobile radio stations/systems; communications towers; video recording systems; radar; sirens; or lighting systems according to manufacturer's specifications.
Examples of Work (cont’d)
Assists cities and municipalities with the installation and maintenance of traffic control signals and highway lighting systems.
Keeps records of maintenance performed and materials used.

Knowledge, Skills and Abilities
Knowledge of the principles of electronics and electricity.
Knowledge of the basic safety practices for working with electricity and electronic circuits.
Knowledge of the state and federal regulations regarding equipment and scale calibration.
Ability to read and interpret electrical drawings and circuit diagrams.
Ability to use electronic and electrical test equipment.
Ability to disassemble and assemble electronic equipment and scales.
Ability to safely work at high heights.
Ability to maintain effective working relationships.

Minimum Qualifications
TRAINING: Graduation from a standard four-year high school or the equivalent.
EXPERIENCE: One year of full-time or equivalent part-time paid employment in electronics repair or land mobile radio/microwave equipment repair.
SUBSTITUTION: Successful completion of an approved vocational school program in electronics of at least 1080 clock hours or an Associate Degree in Electronics or Electronics Engineering Technology from an accredited college or university may be substituted for the required experience.
SPECIAL REQUIREMENT: Possession of a valid driver's license. A general FCC license may be required.

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