Class Concept

This is supervisory and or specialized work in the repair and maintenance of highly complex electronics systems, and the design and modification of complex electronic devices which interface with systems. Some roles may specialize in the installation, maintenance, and operation of radio equipment in a statewide communications system. Positions directly supervise journeyman level technicians in resolving moderate to highly complex tasks. Work involves project management, workload distribution, and associated supervisory responsibilities to ensure work is completed timely and accurately. Positions also perform calibration, preventive maintenance, troubleshooting, and repair of the most complex or novel electronics systems and devices. Electronics device work usually involves the design and testing of prototypes that perform novel and innovative functions. Unique circuit design is common at this level. Positions have ultimate responsibility for ensuring systems and devices are functioning properly on a statewide or large regional level. Errors in project management could result in inoperable systems that negatively impact agency operations or create significant public safety concerns.

Recruitment Standard

Knowledge, Skills, and Abilities

- Thorough knowledge of electronic principles.
- Thorough knowledge of the fundamentals of physics as applied to electronics.
- Thorough knowledge of mathematical principles as applied to electronic circuit analysis.
- Thorough knowledge of the uses of standard and specialized electronic testing equipment.
- Considerable knowledge of the practices, methods, equipment, and materials used in the installation, testing, maintenance, and repair of radio receiving and transmitting equipment.
- Considerable knowledge of Federal Communications regulations pertaining to the operation and maintenance of radio transmitting and receiving equipment.
- Ability to analyze and modify standard circuitry to improve its performance or to perform special effects.
- Ability to design unique circuitry for novel devices.
- Ability to provide technical guidance and function as a supervisor.

Minimum Education and Experience

Associate's degree in electronics from an appropriately accredited institution and three (3) years of progressive experience in the repair and maintenance of complex electronic systems including some responsibility for the design of electronic apparatus; or an equivalent combination of training and experience. Based on the nature of work performed, may require appropriate licensure by the governing board or commission

Note: This is a generalized representation of positions in this class and is not intended to identify essential functions per ADA.