

Class Concept

This is skilled work in the repair and maintenance of standard and custom electronics devices, electronics subsystems, and smaller electronics systems. Positions may either function as agency or department-wide technicians responsible for the maintenance and repair of electronics devices, subsystems, or smaller systems; or involved in the same type of repair independently but under the general supervision of a higher level electronics technician. Positions calibrate, perform preventive maintenance, troubleshoot, and repair electronics devices or systems made up of several interconnected devices where this interconnection complicates troubleshooting and repair procedures. Documentation in the form of schematic diagrams, wiring diagrams, and repair manuals exist in many instances but may be fragmented or nonexistent in others. Positions may modify existing circuitry to improve performance or affect output or lay out circuitry to provide for special functions such as the interfacing of individual devices into systems. Reliance on existing types of circuits and circuit designs is common. Work is evaluated through analysis of reliability of electronic repair and workability of designs and circuit modifications.

Recruitment Standard

Knowledge, Skills, and Abilities

- Working knowledge of electronic principles.
- Working knowledge of the fundamentals of physics as applied to electronics.
- Working knowledge of mathematical principles as applied to electronic circuit analysis.
- Working knowledge of the uses of standard and specialized electronic testing equipment.
- Ability to analyze and modify standard circuitry to improve its performance or to perform special effects.

Minimum Education and Experience

Associate's degree in electronics from an appropriately accredited institution and one year of experience in the repair and maintenance of a variety of specialized electronic devices, preferably including some responsibility for circuit modification; 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.