



# Electronics Technician

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
ELECTRONICS TECHNICIAN I	9060	A16	\$40,918 - \$61,130
ELECTRONICS TECHNICIAN II	9062	A18	\$45,521 - \$71,055
ELECTRONICS TECHNICIAN III	9064	A20	\$51,158 - \$81,351
ELECTRONICS TECHNICIAN IV	9066	A22	\$57,614 - \$93,138

## GENERAL DESCRIPTION

Performs electronics technical support work installing, diagnosing, maintaining, and repairing electronics; and calibrating electronic instruments.

## DISTINGUISHING CHARACTERISTICS

The Electronics Technician job classification series is intended for employees that install, maintain, and repair electronic equipment. Electronic equipment may also include televisions; cameras and body-worn cameras; transmitters; antennas; and communications, lighting, sound, video, security, navigation, or surveillance equipment and systems on vehicles, vessels, and aircraft. In contrast, the Telecommunications Specialist job classification series focuses on the configuration and repair of the telecom infrastructure, which includes video, data, and voice communication systems. The Telecommunications Specialist job class series handles different types of communications technology. The Radio Communications Technician job classification series focuses on maintaining and repairing radio communications equipment.

## EXAMPLES OF WORK PERFORMED

Installs, maintains, and inspects electronics such as communications, cameras, lighting, sound, security, or instrumentation control equipment.

Performs diagnostic tests on electronic components to determine functioning level and capacity.

Diagnoses and repairs defective parts or components; and tests components and instrument function to verify, calibrate, and certify the reliability of measurements.

Designs and develops simple electrical and electronic components, equipment, and systems.

Maintains repair parts and tools inventory and technical files.

Performs related work as assigned.

## DESCRIPTION OF LEVELS

*Examples of work and descriptions are meant to progress through the levels. For example, an employee at level IV may also perform work listed within the previous levels.*

**Note:** Employees at the journey level may independently perform the full range of work identified and may assist others in performing work of greater complexity.

**ELECTRONICS TECHNICIAN I:** Performs moderately complex (journey-level) electronics technical support work. Works under moderate supervision, with limited latitude for the use of initiative and independent judgment.

**Note:** Senior-level employees (levels II-IV) may perform the full range of work identified in the preceding levels and may serve as a team lead; however, this responsibility would typically be found at the level IV. Factors that may distinguish between senior levels include the scope of responsibility and oversight; the scope, nature, size, and complexity of the project; the types of equipment used; and the employee's related work experience, education, and certifications.

**ELECTRONICS TECHNICIAN II:** Performs highly complex (senior-level) electronics technical support work. Works under limited supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may:

- Design and develop complex electrical and electronic components, equipment, and systems.
- Build and test electronic prototypes to specifications.
- Construct or calibrate specialized electronic equipment.
- Prepare instructional materials and aids and provide training in electronic repair techniques.
- Record diagnostic and repair activities on electronics.

**ELECTRONICS TECHNICIAN III:** Performs advanced (senior-level) electronics technical support work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Coordinate the design and development of complex electrical and electronic components, equipment, and systems.
- Coordinate the building and testing of electronic prototypes to specifications.

**ELECTRONICS TECHNICIAN IV:** Performs highly advanced (senior-level) electronics technical support work. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment.

## GENERAL QUALIFICATION GUIDELINES

### EXPERIENCE AND EDUCATION

Experience in installing, diagnosing, repairing, and maintaining electronic equipment.  
Graduation from a two-year college with major coursework in electronic technology or

graduation from an accredited vocational or technical school of electronics is generally preferred. Experience and education may be substituted for one another.

## **KNOWLEDGE, SKILLS, AND ABILITIES**

### **For all levels**

- Knowledge of electronics and electronic test equipment and tools, procedures for troubleshooting and maintaining electronic instruments, and electronic safety precautions and procedures.
- Skill in the use of test equipment and tools to make repairs, and reading gauges and indicators to ensure that equipment is functioning properly.
- Ability to understand and follow instructions, to understand and interpret electrical and/or signal schematic diagrams and technical reference material, to understand and apply the principles used in electronic equipment, and to communicate effectively.

### **Additional for Electronics Technician IV level**

- Ability to serve as a lead worker providing direction to others.

## **REGISTRATION, CERTIFICATION, OR LICENSURE**

May require certification as an electronics technician.