



Radio Communications Technician

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
RADIO COMMUNICATIONS TECHNICIAN I	9700	A13	\$35,439 - \$52,388
RADIO COMMUNICATIONS TECHNICIAN II	9704	A15	\$38,976 - \$58,045
RADIO COMMUNICATIONS TECHNICIAN III	9706	A17	\$42,976 - \$64,469

GENERAL DESCRIPTION

Performs radio communications technical work installing and repairing two-way mobile communications and associated equipment, inspecting and adjusting radio transmitting and receiving equipment, performing non-licensed technical repairs, and cleaning and replacing defective parts.

EXAMPLES OF WORK PERFORMED

Installs two-way radio mobile transceivers, electronic sirens, emergency lighting systems, mobile video systems, computer equipment, and associated electronic equipment.

Installs equipment shelters and emergency power plants at base station installations.

Installs emergency communications equipment.

Performs repairs to mobile system equipment installations.

Repairs and rebuilds communication equipment and parts.

Tests operational capacities of mobile installations.

Cleans and replaces defective parts.

Provides ground assistance for base station, microwave antenna, and transmission line installations.

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 III may also perform work listed within the previous levels.

Note: *Factors that may distinguish between entry and journey levels include the degree of independence in performing the work; the complexity of the work; the scope of responsibility; the types of equipment installed, maintained, and repaired; and the employee's related work experience, education, and certifications. Employees at the journey level (level II) may*

independently perform the full range of work identified within current or previous levels and may assist others in performing work of greater of complexity. Senior-level employees (level III) may perform the full range of work identified in the preceding levels and may serve as a lead worker providing direction to others.

RADIO COMMUNICATION TECHNICIAN I: Performs entry-level radio communications technical work. Works under close supervision, with minimal latitude for the use of initiative and independent judgment.

RADIO COMMUNICATION TECHNICIAN II: Performs complex (journey-level) radio communications technical work. Works under general supervision, with limited latitude for the use of initiative and independent judgment. Employees at this level may:

- Install, maintain, and repair two-way base communications, microwave, audio, control, antenna, transmission line, and associated electronic equipment.
- Install microwave and control consoles at base station and repeater sites.
- Program mobile, portable, and fixed radio equipment.
- Maintain and repair radio communications towers, guy-wires, lighting, and associated electronic control equipment.
- Maintain, troubleshoot, repair, and align communications, microwave, control, audio, speed measuring, test, and associated electronic equipment.
- Maintain, repair, and adjust equipment in vehicles and stations to precision tolerances specified by the Federal Communications Commission.
- Support in procuring repair parts and equipment.
- Construct special electronic and test equipment.

RADIO COMMUNICATION TECHNICIAN III: Performs advanced (senior-level) radio communications technical work. Works under limited supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may:

- Coordinate installation, maintenance, and repair of equipment.
- Develop maintenance and test procedures on communications and electronic equipment.
- Conduct system and equipment performance tests.
- Install electrical wiring of equipment shelters and emergency power plants at base station installations.
- Design and construct specialized radio, electronic, and test equipment.
- Establish and maintain files and records.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Experience in radio installation, maintenance, and repair work. Graduation from a standard senior high school or equivalent, supplemented by courses in communications and electronics or automotive electrical systems repair and maintenance, is generally preferred. Experience and education may be substituted for one another.

KNOWLEDGE, SKILLS, AND ABILITIES

For all levels

- Knowledge of radio installation, adjustment, and repair techniques.
- Skill in the use of maintenance, testing, and repair tools and equipment.
- Ability to install and maintain radio and associated electronic equipment; to detect and eliminate trouble in radio transmitters, receivers, and other electronic devices; and to communicate effectively.

Additional for Radio Communications Technician II – III levels

- Knowledge of electricity, electronics, and automotive electrical systems; installation and repair of mobile and fixed radio equipment; base station antenna, microwave antenna, transmission lines, and associated equipment; antenna orientation and radiating patterns; and Federal Communications Commission rules and regulations.
- Ability to interpret schematic diagrams and technical reference materials.

Additional for Radio Communications Technician III level

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

REGISTRATION, CERTIFICATION, OR LICENSURE

May require a Federal Communications Commission General Radiotelephone Operator License (PG).