

## CLASS SPECIFICATION

### SAN DIEGO CITY CIVIL SERVICE COMMISSION

#### COMMUNICATIONS TECHNICIAN - 1426

##### DEFINITION:

Under general supervision, to construct, install, adjust, modify, repair, and operate communications transmitters and receivers and other electronic equipment; and to perform related work.

##### \* EXAMPLES OF DUTIES:

- Assembles, installs, maintains, adjusts, evaluates, troubleshoots, and repairs mobile, portable, and fixed land mobile radio communication equipment and systems;
- Maintains digital microwave backbone infrastructure, VHF radio communications, 800MHz trunk radio communications, supervisory control, and data acquisition (SCADA);
- Maintains 700MHz Project 25 (P25) Trunked Radio System and maintains radio control dispatch consoles with CAD capability;
- Monitors, maintains, and configures IP/MPLS backhaul networks;
- Tests circuits, components, and elements;
- Installs and tests fiber-optics;
- Diagnoses and repairs defective components and subassemblies using such test equipment as combination meters, frequency/ deviation monitors and counters, oscilloscopes, signal generators, and RF Watt meters;
- Installs, tests, and repairs sound reinforcement systems, intercom systems, CCTV and MATV systems, audio tape recorders, base station remote control equipment, automatic receiver selectors, radar speedometers, radio teleprinters, pagers, metal locators, specialized devices involving micro-processor and logic technologies, and other electronic devices including microwave communication systems and components and industrial electronic equipment;
- Locates and clears radio interference;
- Makes field trips to locate and clear radio interference;
- Prepares equipment replacement schedules and requisitions materials;
- Makes and records measurements required by FCC rules and regulations;
- Estimates costs;
- Leads apprentices and helpers;
- Maintains records and prepares reports;
- Reports on radio field strength surveys, sound level measurements, and interference studies;
- Constructs and modifies electronic devices and equipment;
- Prepares schematics and interconnection diagrams;
- Reports on inspections of commercial CATV systems;
- Prepares preliminary drafts of schematic and interconnection diagrams.

\* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.

**MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

Four years of full-time journey-level experience in communications electronics, which must include two years of troubleshooting and repair experience at the component level; **OR** an Associate's Degree in Electronics Technology, **AND** two years of full-time journey-level experience troubleshooting and repairing communications electronics at the component level; **OR** successful completion of a four-year state-accredited Communications Technician Apprenticeship Program; **OR** a combination of the above training and experience totaling four years which must include two years of full-time journey-level experience troubleshooting and repairing communications electronics at the component level.