

## **CLASS TITLE: SENIOR LAND MOBILE RADIO TECHNICIAN**

**PURPOSE OF THE CLASSIFICATION:** Under general supervision this position performs installation, maintenance, design, modification, programming and highly skilled technical repair work on land mobile radio (LMR) systems and other electronic systems and equipment; provides training and lead direction to subordinate employees as requested by supervisor and other related assigned duties.

### **ESSENTIAL TASKS:**

- Performs installation, preventative maintenance, design, modification, repair work, and technical support for VHF/UHF and 800/900 MHz analog and digital systems, mobile and portable subscriber equipment, simulcast, conventional, trunked radio systems, dispatch consoles, radio recording equipment, and microwave systems
- Maintains test equipment, tools, communication towers and facilities associated with operational concerns of the City departments
- Install, diagnose, repair and return to service various electronic equipment, two-way radio repeater systems and associated subscribers and applications
- Diagnose, troubleshoot, discuss, and resolve wireless communication equipment questions and problems with customers in a positive and efficient manner
- Analyze and comprehend diagnostic test results in order to repair and program radios and wireless equipment.
- Evaluates new electronic equipment and software
- Assists other department's support personnel in trouble shooting and resolving problems
- Trains other technicians
- Maintains and updates work records and provides detailed work reports, schematics, and block diagrams
- Maintains critical database record information required for Telecommunications systems management
- Technicians will be required to be on call, which includes overtime with little or no notice.
- Reports to work on a regular and timely basis

**Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.**

### **QUALIFICATIONS:**

Training and Experience: Graduation from high school or possession of a General Educational Development Certificate (GED) supplemented by thirty (30) hours of coursework in electronics or related field; or successful completion of an approved two (2) year training course in electronics and telecommunications technology or other related fields and four (4) years of related work experience; or an equivalent combination of training and experience per Personnel Policies and Procedures, Section 128.

Knowledge, Abilities and Skills: Considerable knowledge of the operating principles of various types of telecommunications electronic and microprocessor based equipment; considerable knowledge of testing, maintenance, installation, and repair practices of such equipment; considerable knowledge and understanding of two-way radio theory and communications systems; considerable knowledge of radio transmitting and receiving devices, microwave, antenna systems, combiners, and ancillary equipment; experience in the support of conventional, trunking, analog, digital, and simulcast systems; considerable knowledge of fleet mapping strategies; ability to program, troubleshoot and perform system diagnostics on complex radio systems; considerable knowledge of industry standard practices with the installation, maintenance, and repair of specialized digital and analog electronic equipment; knowledge of battery backup systems, base stations, repeaters, multicouplers and duplexers; ability to work in hazardous and/or high locations; knowledge of current FCC rules and regulations pertinent to radio spectrum; basic networking skills, principles and practices associated with WANs, LANs, and the ability to apply aspects of network design; knowledge of both subscriber and infrastructure RF safety; ability to identify and troubleshoot problems and issues regarding radio and microwave systems; skilled in the use of complex electronic analyzing equipment such as, spectrum analyzer/service monitor to conduct Distance To Fault (DTF) sweeps, Voltage Standing Wave Ratio (VSWR) fault isolation, power (forward and reflected), and radio tuning; ability to use a PC and various specialized software applications to accomplish needed tasks; and the ability to understand and influence the behavior of others within the organization, customers, or the public in order to achieve job objectives and cause action or understanding

Physical Requirements: Physical requirements include arm and hand steadiness and finger dexterity enough to use a keyboard and telephone; frequent lifting up to 50 pounds with occasional lifting up to 60 pounds; frequent carrying up to 20 pounds with occasional carrying up to 60 pounds; occasional pushing and pulling up to 50 pounds; may be subject to walking, standing, sitting, reaching, balancing, bending, kneeling, crawling, handling, feeling, climbing, smelling, and twisting; and vision, speech, and hearing sufficient to perform the essential tasks.

Licenses and Certificates: Possession of a valid Oklahoma Class "D" Operator's License. Requires possession of an FCC General Radio-Telephone Operator License within one (1) year of hire date; and possession of an APCO (Association Public-Safety Communications Officials) technician certification, National Association of Business and Educational Radio (NABER), or Building Industry Consulting Service International (BICSI) Technician Certification within one (1) year of hire date.

**WORKING ENVIRONMENT:** Working environment is primarily indoors and occasionally outdoors and in inclement weather; and requires travel to all City locations to perform installation and maintenance work.

**Class Code: 3571**

**EEO Code: N-03**

**Pay Code: IT-28**

**Group: Engineering, Planning, and Technical**

**Series: Communications Operations and Maintenance**

**Effective Date: November 18, 2019**