

**CITY OF SALEM  
SEWER INSTRUMENT TECHNICIAN**

**00530  
20530  
40530**

**NATURE OF WORK**

This is skilled diagnostic and repair work of electronic, solid state and electrical/mechanical equipment used in sewer and storm drain maintenance.

Work involves bench and field diagnosis and repair of electronic, solid state and related equipment used in sewer and storm drain maintenance and repair. Work also involves directing a crew conducting sewer grouting, line inspections and other related maintenance and repair work. Directs a crew in performing maintenance work and procedures. Supervision is received from an immediate supervisor through assignments, work requests and monitored for progress and results. Supervision of others is not always required of this classification, however this class will act as a lead worker of a crew.

**ILLUSTRATIVE EXAMPLES OF WORK**

(Any single position of a class will not usually involve all of the duties listed and many positions will involve duties which are not listed.)

Tests, calibrates and repairs electronic, solid state and electrical/mechanical equipment such as television cameras and video recorders, cabling, power packs and other related units such as gas detectors associated with the inspection, maintenance and repair of sewer and storm drains. May fabricate or modify equipment or parts as needed.

Uses specially developed and standard electronic testing equipment such as oscilloscopes, frequency meter, transistor and capacitor checker, NTSC generator, etc. to align, test and repair equipment. Repairs and replaces circuit boards and components, utilizes schematics, blue prints, product handbooks as needed to locate and diagnose electronic and physical malfunctions or failures and make repairs. Makes repairs and adjustments; locates and clears power source failures.

Operates the closed circuit television inspection and topography system and the TV/chemical grout unit. As TV/chemical grout unit operator, enters inspection work reports into the on-board computer. Trouble shoots malfunctions in television and grouting equipment and makes some field repairs. Sets up preventative maintenance schedules, routinely inspects equipment and monitors operating procedures.

Responsible for custody and inventory of specialized maintenance tools, equipment parts and supplies used. Orders electronic parts and supplies needed in repair and maintenance and makes recommendations to supervisor for major purchases and replacements. Maintains repair history records and other records associated with sewer/storm drain maintenance or equipment repair.

Performs other related work as required.

## WORK QUALIFICATIONS

Considerable experience in electronic component repair specifically related to sewer maintenance such as close circuit TV inspection equipment and experience in sewer/storm drain maintenance or repair; completion of a two-year technical course in Electronics Technology and training in the effects of sewer inspections on equipment; or any equivalent combination of experience or training which provides the following knowledges, skills and abilities:

Knowledge of the principles of repair and maintenance of complex solid state electronic devices, particularly VCRs, cameras, monitors and line amplifiers.

Knowledge of the principles of cable television transmission and reception; of uses and operations of a variety of diagnostic equipment; of electronic design practices and procedures.

Knowledge of safety precautions and hazards involved in working with equipment and sewer/storm drain utility systems.

Considerable skill in repairing and maintaining a variety of electronic equipment particularly VCRs, cameras, monitors, power systems and cabling; and in fabricating equipment and parts; and in diagnosing the cause of equipment malfunctions efficiently.

Considerable skill in reading and interpreting schematic diagrams and maintenance instructions; in the operation and application of diagnostic equipment to test and calibrate equipment; and the use of a variety of tools and equipment used in maintenance and repair.

Ability to keep maintenance records, inventories, and process purchase documents.

Ability to establish and maintain effective working relationships with others; assign and monitor the work of others; and deal with the public in a courteous manner.

Possession of a valid Oregon Driver's license or Class B license and the ability to meet City driving standards.

Ability to work in confined spaces, stand for considerable periods of time on pavement, climb ladders and work at heights and perform these duties in all types of weather conditions.

9/90  
JOBSPEC.530

---

PERSONNEL DIRECTOR