

SNOHOMISH COUNTY JOB DESCRIPTIONS
EQUIPMENT TECHNICIAN – COMMUNICATIONS AND RADAR

Spec No. 8118

BASIC FUNCTION

Repair, maintain and install UHF, VHF, Smartzone 800 MHZ trunking mobile and portable radios and other miscellaneous communication equipment in a variety of vehicles.

STATEMENT OF DUTIES

1. Troubleshoots, repairs, maintains, installs and tests VHF and UHF Smartzone 800 MHZ (commercial FM two-way) radio equipment using schematic diagrams and installation drawings, or using common technical skills. Equipment typically includes base stations, communication consoles, vehicular and portable radios, receivers, and associated wiring.
2. Troubleshoots, repairs, installs and tests global positioning system (GPS)/automated vehicle locator (AVL) equipment using schematic diagrams and installation drawings, or using common technical skills. Equipment typically includes a receiver and varied controller switches.
3. Troubleshoots, repairs and calibrates various speed measuring devices using schematic diagrams or common technical skills.
4. Performs routine preventive maintenance service including cleaning and checking communications equipment for function and performance.
5. Troubleshoots and diagnoses malfunctions in communications equipment; determines cause of failure; and replaces or repairs faulty mechanical or electronic parts.
6. Programs radios using a laptop computer and manufacturer's service software.
7. Coordinates with other radio personnel and County staff and management regarding County communication upgrades and concerns.
8. Recommends types of radios to be purchased for specific applications.
9. Orders and maintains various communications equipment and associated parts.
10. Prepares work orders using the county Fleet Management computer database system. Maintains radio asset records in the Fleet Management computer database system.
11. Performs related duties as required.

STATEMENT OF OTHER JOB DUTIES

May be required to provide expert testimony regarding the accuracy of certain speed measuring equipment.

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MINIMUM QUALIFICATIONS

Satisfactory completion of a two-way communications technician training course in radio repair; And two (2) years experience in the repair, maintenance and installation of VHF and UHF radios in a variety of vehicles, off-road equipment, and trucks; OR, any equivalent combination of training and/or experience that provides the required knowledge and abilities. Must pass job related tests.

SPECIAL REQUIREMENTS

A valid Washington State Driver's License is required for employment.

Technicians provide their own hand tools for work in this classification.

Possession of a valid NABER certificate or FCC General Class license.

KNOWLEDGE AND ABILITIES

Knowledge of:

- electrical theory, D.C. and A.C.;
- VHF and UHF 800 MHZ Smartzone trunking basic technology;
- principles of electronic technology;
- technical mathematics for electronics;
- read and interpret schematics;
- basic record keeping procedures.

Ability to:

- troubleshoot, repair, install, maintain and test all VHF and UHF Smartzone 800 MHZ trunking radio equipment using systematic, logical and orderly techniques;
- troubleshoot, repair, install, maintain and test global positioning system (GPS)/automated vehicle locator (AVL) equipment;
- troubleshoot, repair and calibrate various speed measuring devices;
- set up and operate test equipment;
- use mathematical formulae to solve electronic problems;
- apply electronic theory, principles of electrical circuits, electrical testing procedures, mathematics and related knowledge to test, troubleshoot, and repair communications equipment;
- use small hand tools, pliers, wire cutters, soldering irons, screwdrivers, and other tools to repair broken equipment;
- work with precise limits or standards of accuracy;
- identify and distinguish color coded wiring;
- write informal written reports on technical investigations;

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KNOWLEDGE AND ABILITIES (Continued)

Ability to:

- understand and execute written and oral instructions;
- deal tactfully with clients and the public;
- work under pressure and cope with interruptions;
- use personal computers.

PHYSICAL REQUIREMENT

Good color vision and excellent manual dexterity and ability to use fingers to move small objects accurately. Employees are required to lift and carry boxes and supplies weighing up to fifty (50) pounds. Light physical activity, involving some moving around and handling objects. Some bending, reaching and lifting is required.

SUPERVISION

Employees receive general supervision from an administrative superior as assigned and will often work alone without close supervision. Receives specific instructions for unusual job orders. Work is spot checked to insure compliance with established methods and procedures.

WORKING CONDITIONS

Vehicle will be provided to allow for field installations and repairs at various county shop facilities.

Snohomish County is an Equal Employment Opportunity (EEO) employer.
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: September 2012
EEO Category: 3 - Technicians
Pay Grade: 239 - Classified Pay Plan
Workers Comp: 1501 Hazardous