

Position: **Benchmark Job #232**

Ministry: Forests

Working Title: **Electronics Technician**

Branch: Technical and Administrations Operations

Level: Range 18

Location: Vancouver

NOC Code: 2242

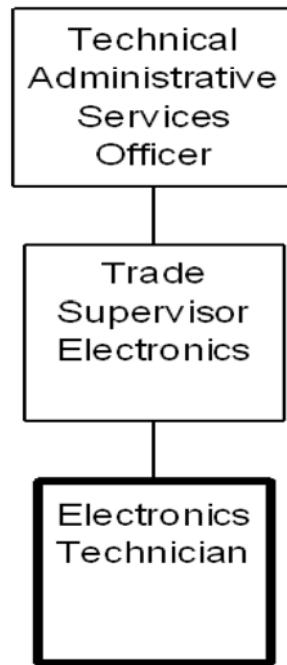
## PRIMARY FUNCTION

To install, maintain and repair radio communications equipment including base stations, portables, mobile and marine radios, mountain top repeaters, lightning location and detection systems and various other audio electronic equipment.

## JOB DUTIES AND TASKS

1. Installs, maintains, repairs and checks electronic radio equipment
  - a. analyzes and interprets defects in radio communications systems using circuit diagrams, specifications, schematics and blueprints
  - b. reviews user reports, trouble shoots and diagnoses electronic equipment for interference or operational problems
  - c. changes operating frequencies of radios to conform to operational standards
  - d. installs, removes and replaces radios, antennae and associated equipment and components and aligns circuits
  - e. inspects and performs operational checks on auxiliary power units and troubleshooting faults associated with electrical wiring
  - f. installs, maintains and removes acid batteries
  - g. designs or modifies printed circuit boards
2. Installs, maintains, repairs and checks electronic radio equipment in the field
  - a. analyzes and interprets problems in field electronic equipment
  - b. assembles mountain top antennae and radio repeaters in all weather conditions
  - c. installs and repairs shipboard electronic equipment
  - d. climbs towers to assess problems and repairs related to equipment and components
  - e. installs emergency communications systems used during forest fires
  - f. travels by boat, truck, helicopter and light aircraft to remote sites to perform maintenance and repair work
3. Performs other related duties
  - a. monitors contractors' work on emergency fire radio systems and radio repeater sites
  - b. prepares work reports and maintains records of work performed
  - c. exercises spending authority to hire outside contractors, charter aircraft and purchase supplies
  - d. trains staff and professionals in operation of radio equipment and systems
  - e. operates vehicle to drive to sites, operates forklift to move equipment, and loads and unloads equipment suspended from helicopters

- f. assists with site planning for installation of new equipment such as location and wave length frequency of repeater stations



FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
1	<p><b>JOB KNOWLEDGE</b></p> <p>Understands the principles of electronics to analyze and diagnose electronic problems in radio communication equipment such as base stations, portables, mobile and marine radios, mountain top repeaters, lightning location and detection systems and various other radio electronic equipment.</p>	G	250
2	<p><b>MENTAL DEMANDS</b></p> <p>Judgement to apply analysis and interpretation of electronic problems and choose an approach to service electronic equipment and determine if equipment is operating to prescribed standards.</p>	E	150
3	<p><b>INTERPERSONAL COMMUNICATION SKILLS</b></p> <p>Discretion required to exchange information needing an explanation of how to operate radio equipment with ministry staff and others.</p>	C	30
4	<p><b>PHYSICAL COORDINATION AND DEXTERITY</b></p> <p>Significant coordination and dexterity required to calculate and adjust electronic equipment to precise tolerances.</p>	D	22.5
5	<p><b>RESPONSIBILITY FOR WORK ASSIGNMENTS</b></p> <p>Guided by electrical standards applies accepted work methods in a different</p>	E	120

	way to diagnose problems in communication equipment and to determine the appropriate repair or replacement option.		
6	<b>RESPONSIBILITY FOR FINANCIAL RESOURCES</b> Moderate financial responsibility to hire contractors using standardized and pre-approved contract language.	D	22.5

FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
7	<b>RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION</b> Considerable responsibility to perform full maintenance and repair to electrical and electronic equipment.	E	33
8	<b>RESPONSIBILITY FOR HUMAN RESOURCES</b> Responsibility to provide formal training to staff in operation of radio equipment and systems.	B	9
9	<b>RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS</b> Moderate care and attention to drive a vehicle as a designated driver with no requirement to carry passengers.	C	15
10	<b>SENSORY EFFORT/MULTIPLE DEMANDS</b> Focused attention to detail to frequently visually focus on electrical and radio equipment repairs.	C	12
11	<b>PHYSICAL EFFORT</b> Heavy physical effort to regularly lift heavy weights such as batteries.	E	24
12	<b>SURROUNDINGS</b> Exposure to the elements on a regular basis while performing field work with no available shelter.	C	6
13	<b>HAZARDS</b> Significant exposure to hazards from regular flying at low altitudes in hazardous weather to access remote repeater sites.	D	9

Total Points: 703

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