


Position Identification			
Position Title	Electronic Technician		
Position Replaces	N/A		
Position Level	Employee	Position Code	1153/1191
Wage Grid	Skilled Trade inc. Tool	Revision Date	Mar-19
Supervisor Title	Daily Shift Manager	Sup. Position Code	1145/1198
Additional Requirement	CRC	Shift Work	
Division	Operations	Flexible Work Arrangement	N/A

## Organizational Description

BC Transit is a provincial crown corporation responsible for the overall planning and delivery for all of the different municipal transportation systems within British Columbia, outside Greater Vancouver.

**Our Mission:** Delivering transportation services you can rely on

## Department Summary

The Victoria Operations Department is responsible for delivery of transit service within the Victoria Regional Transit System. The VRTS operates 24/7 and 365 days per year with the main objective of ensuring safe, reliable and a customer centric service that consistently meets expectations.

The Maintenance Services department of BC Transit is responsible to sustain and perform preventive maintenance activities on the fleet and infrastructure assets assigned to the Victoria Regional Transit System (VRTS). Our dynamic team maintains a fleet of over 300 vehicles to provide clean, safe and reliable buses for our riders..

## Job Overview

Reporting to the Supervisor Maintenance, the E-Technician performs troubleshooting, testing, repair, interfacing and overhaul of complex electrical, electronic devices and components of BC Transit's fleet which includes computer hardware, automated fare collection equipment, user interfaces, peripherals, and legacy multiplex systems. Will be required to perform installations, retrofits as well as preventive and scheduled maintenance on all electrical/electronic systems including radios, Wi-Fi, cellular, CCTV, telematics and other future systems.

## Key Accountabilities and Expectations

Key Accountability	Expectation
<b>Technical</b>	<ul style="list-style-type: none"> <li>• Inspect, troubleshoot, test, repair, interface and overhaul of complex electrical, electronic devices and components as per as per manufacturer, developer and BC Transit Fleet Standards</li> <li>• Ability to complete basic computer diagnostics, changing and swapping of computer components</li> <li>• Perform calibration of components and test equipment as required</li> <li>• Thorough understanding of 6V, 12V and 24V systems</li> <li>• Ability to identify, isolate and repair faults in complex electrical and electronic circuits including the ability to read schematics, utilize test equipment and fabricate test leads as required</li> <li>• Perform diagnostics and troubleshooting with vendors and BC Transit Fleet Standards</li> <li>• Repair, maintain and retrofit mechanical and electromechanical components as well as microprocessor based solid state control systems</li> <li>• Identify and order parts with approval from Maintenance Supervision and Management</li> <li>• Reporting of failures, errors, deviations and damages (i.e.: IT Ticket System)</li> <li>• Reporting of foreseen major repairs and repetitive or recurring problems</li> <li>• Ability to read and interpret manufacturer documentation incl. schematics</li> <li>• Proper and careful use of work equipment and materials</li> </ul>
<b>Non-Technical</b>	<ul style="list-style-type: none"> <li>• Perform thorough record keeping and timely completion of required documentation (i.e.: inspection forms, work orders, warranty backup, work instructions, time sheets, etc.)</li> <li>• Attend and participate in meetings (incl. daily toolbox, monthly safety, ad-hoc, etc.)</li> <li>• Manage IT Ticket Systems for work identification and close-out</li> <li>• Maintain contact and effective working relations with internal and external parties as required.</li> <li>• Share knowledge and where necessary provide training for peers incl. apprentices</li> <li>• Willingness to attend and pursue training opportunities</li> </ul>
<b>Physical Demands &amp; Work Environment</b>	<ul style="list-style-type: none"> <li>• The physical demands of the BC Electronic Technician most often requires manual handling of loads between 10 kg and 20 kg (NOC Medium Strength Requirement) on a frequent basis, and over 20 Kg (Heavy Requirement) on a minimal basis with no loads exceeding 44kg.</li> </ul>

	<ul style="list-style-type: none"> <li>• Use of hand, air and power tools including but not limited to; screwdrivers, sockets, soldering irons, multi-meters, test-leads, pry bars and drill/drivers.</li> <li>• Lifting between ground level and overhead, various tools, mechanical parts, and equipment</li> <li>• Push /pull/carry of basic hand tools, parts, equipment and portable steps.</li> <li>• Reaching between ground level and overhead, often reaching into cramped spaces.</li> <li>• Trunk flexion and extension is common when working on vehicles and equipment.</li> <li>• Squatting, crouching, kneeling or creeping to inspect and work on vehicles.</li> <li>• Combination of walking/standing frequently throughout the day</li> <li>• Navigation of steps and stairs to access the buses, including staircases in bi-level bus designs.</li> <li>• Occasional driving and sustained seated postures when operating buses.</li> <li>• Works inside (80 - 85% of job duties are completed in the shop)</li> <li>• Work outside (10 - 15% of job duties are completed outside in the yard or during road tests)</li> <li>• Works in close proximity to moving traffic (0 - 1% of job duties are completed during "road calls")</li> <li>• Exposure to: <ul style="list-style-type: none"> <li>• Environmental noise – Frequently (e.g. Sound of running buses, equipment, tools, vacuums, pressure washers, etc...)</li> <li>• Vibration – Occasionally (e.g.: air compressors, ratchets, drills/drivers, etc.)</li> <li>• Chemicals and Fumes – Frequent (e.g.: soldering / welding fumes, fuel fumes, lubricants, grease, oil, etc.)</li> <li>• Airborne Particles – Occasional (e.g.: dust)</li> </ul> </li> <li>• Worker may also be exposed to hot conditions (&gt; 25 degrees Celsius); cold conditions (&gt; 5 degrees Celsius); or wet conditions when working outdoors.</li> <li>• Working in a fall arrest harness at heights less than 6 meters</li> <li>• Working on portable stairs or on mobile scissor lift at heights less than 5 meters</li> <li>•</li> </ul>
<b>Work Shift/Hours</b>	<ul style="list-style-type: none"> <li>• The position requires working a variety of shift schedules incl. day, night and weekends</li> <li>• Regardless of shift the E-Technician receives 50 minutes of break-time, which is typically divided into two 10-minute rest periods, and one 30-minute meal break.</li> <li>• Overtime is not a frequent requirement of the position, but does arise on rare occasions in the form of incidental-overtime, which is voluntary and issued as per the Collective Agreement.</li> </ul>

<b>Additional Duties</b>	<ul style="list-style-type: none"> <li>Performs related duties in keeping with the purpose and accountabilities of the job</li> </ul>
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<b>Summary of Qualifications and Job Specific Competencies</b>	
<b>Education</b>	<ul style="list-style-type: none"> <li>Electronics Technology Diploma from a recognized technical institute with documented education in computer-controlled power systems, power electrical/electronic and semi-conductor applications</li> <li>In the absence of education, two or more years' experience in a related field along with one year of direct troubleshooting and repair experience of bus electrical systems or comparable heavy truck/marine systems would be considered an asset</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>Valid Drivers Licence – minimum Class 5 (preference for Class 2 or 3 with Air Brakes)</li> <li>Class 2 Learners AND a Temporary #15 air brake restriction/endorsement required for the first day of employment or already hold a Class 3 Licence with Air Brake Endorsement</li> <li>Ability to obtain and hold a valid Class 2 Drivers Licence with air brakes after on-the-job training</li> <li>Ability to pass a comprehensive ICBC medical examination relating to the Motor Vehicle Act requirement for a Class 2 Drivers Licence</li> </ul>
<b>Key job-specific competencies</b>	<ul style="list-style-type: none"> <li>Proficient with modern electronic laboratory diagnostic equipment, electrical schematics and equipment calibrations</li> <li>Strong computer skills and knowledge of computer operating systems</li> <li>Strong understanding of software and programming of components</li> <li>Solid understanding of Wi-Fi and cellular based systems including set ups</li> <li>Proficient in computer systems used to access schematics, repair procedures, etc. as well as to perform thorough record keeping of own activities performed</li> </ul>