

# RDCO Job Description



**Position Title:** Senior Electrical/Instrumentation Technician

**Division:** Engineering Services

**Reports To:** Supervisor of Utilities Services

**Date:** April 12, 2022

## Job Purpose/Summary:

The Senior Electrical/Instrumentation Technician is responsible for planning and performing skilled electronic and electrical work involving troubleshooting, installing and repairing sophisticated and elementary instrumentation for power control systems in the Wastewater Treatment Plant, sanitary sewer and water distribution systems.

## Principal Accountabilities:

1. Development and maintenance work on all devices connected to the digital control system (DCS), including system design and system control programming in order to ensure that power control systems and communication/telemetry networks continue to function safely and properly.
2. Develop back-up programs for all systems and document systems to ensure that systems can be quickly reinstalled in the event of main system malfunction.
3. Develop Excel reports and historical systems control data to maintain system operations and control.
4. Perform preventative maintenance as per preventative program, and in consultation with Senior Operators and Supervisor.
5. Perform maintenance repairs and alterations of power distribution and utilization equipment.
6. Install and test new equipment and systems as part of the capital projects program.
7. Ensure systems remain operable by troubleshooting for alarms and alerts requiring immediate attention and addressing any remedial action required.
8. Direct and mentor Electrician/Instrumentation Technician.
9. Plan electrical/instrumentation work with input from Senior Operators and Supervisor.
10. Provide Operator training on installed devices or process control to ensure proper sequencing/procedures and safety methods are followed.
11. Computer Maintenance Management CMMS experience.
12. Other duties as assigned.

## Reporting Relationships:

**Direct Reports:**

**Dimensions:**

## Knowledge, Skills & Experience:

### Educational Background Required:

- Canadian Red Seal endorsement TQ as an Industrial Electrician, or Instrument Mechanic
- Technical Safety BC – Field Safety Representative Class A or B
- Valid BC Drivers Licence
- FSR Certification

### Experience Required:

- Five years' experience in electrical/electronic instrumentation maintenance and repair.
- Programming experience with Supervisory Control and Data Acquisition SCADA Control
- Good understanding and knowledge of Windows programs.

## Working Conditions:

- **Physical Effort:** Sometimes extremely physically demanding when performing repairs and installations.
- **Physical Environment:** 75% WWTP with exposure to noxious odours and occasional exposure to untreated sewage; 25% water systems and waste water collection systems in confined spaces and in extremely hazardous environment.
- **Mental Stress:** Occasional requirement for emergency repair calls with time pressure to get equipment and systems back on-line quickly.
- **Sensory Attention:** Frequent visual, audible and attention to usual odours requiring concentration.

