

RDCO Job Description



Position Title: Electrical/Instrumentation Technician
Reports To: Supervisor of Utilities Services

Division: Engineering Services
Date: November 1, 2018

Job Purpose/Summary:

The Electrical/Instrumentation Technician is responsible for 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.
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. Provide Operator training on installed devices or process control to ensure proper sequencing/procedures and safety methods are followed.
9. Other duties as assigned.

Reporting Relationships:

Direct Reports:

Dimensions: (annual/approximate):

Knowledge, Skills & Experience:

Educational Background Required:

- Canadian Red Seal inter-provincial TQ as an Industrial Electrician, or Instrumentation
- Certificate of Qualification for the design and installation of structured cabling systems.
- BC Safety Authority Field Safety Repairs, Class A or B.
- Valid BC Drivers Licence
- FSR Certification
- Current CEC Course

Experience Required:

- Five years experience in electrical/electronic instrumentation repair; recognized training in Industrial Control Programming. Good understanding and knowledge of process control systems.
- AutoCAD an asset.

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.