

## **Course Description: Introduction to Instrumentation**

This comprehensive course provides an immersive introduction to industrial instrumentation, specifically aligned with the **Level 3 Construction and Maintenance Electrician** curriculum for Ontario and adaptable to all provinces. Designed to bridge the gap between theoretical knowledge and field application, students will engage in a hybrid learning environment featuring 12 specialized Virtual Reality labs paired with technical classroom training.

### **Core Learning Areas**

The curriculum focuses on the four pillars of process control, emphasizing bench testing and precise calibration:

- **Technical Requirements Pressure Measurement:** Procedures for connecting and verifying the operation of point pressure measuring equipment.
- **Temperature Measurement:** Installation and verification of point temperature sensing devices.
- **Level Measurement:** Hands-on procedures for level measurement devices.
- **Flow Metering:** Functional testing of velocity flow switches, positive displacement flow meters, and rotameters.

Developed by NORCAT Industries for NETCO. **Testing done via NETCO LMS Requirement: Oculus Headset and gaming PC**