



## DIPLOMA IN ENGINEERING TECHNOLOGY PROCESS INSTRUMENTATION & CONTROL

JPT/BPP(K) 1000-600/B293JLD3(23)(R/523/4/0244)(A 5002) 07/2020

### PROGRAMME BRIEF

Process Instrumentation & Control Diploma in Engineering Technology provides students with sound theoretical and practical training in the operation and maintenance of automated process control and measurement systems to maintain a consistent product output. It is the art and science of measurement and control of process variables within a production, laboratory, or manufacturing area in the instance of typical process variables namely temperature, pressure, level and flow of industrial reactors may be controlled.

Student will install control equipment and use computer-based control systems including Programmable Logic Controller (PLC) and Distributed Control System (DCS) to monitor variables like flow, temperature, pressure, level and flow to ensure equipment and systems are functioning correctly, safely and at peak performance. The application software in instrumentation, process control systems design, Fieldbus™ SCADA, and interfacing of industrial microcomputer control systems with real processes are used in the laboratory facilities found in various sectors, including power production, oil and gas refining, processing, transportation, fertilizer production, pulp and paper, wood processing, petrochemical processing, food processing, mining and manufacturing.

### CORE STUDY AREAS

- Data Acquisition Technology
- Industrial Process Control
- Instrument Calibration and Maintenance
- Distributed Control System

### JOB OPPORTUNITIES

- Field Specialist
- Control & Instrumentation Technologist
- Service Assistant Engineer
- Service Engineer