

Control Systems and Distribution

Course contents:

Module #1

- Introduction to distribution control system (DCS)
- Examples of a distribution control system (industrial plants, chemical plants, manufacturing facilities & heating or cooling systems within a factory building.
- Supervisory control and data acquisition (SCADA)
- Programmable logic controllers (PLCs) - Remote terminal units (RTUs)
- Distribution control systems (DCS) - process control systems (PCS)

Module #2

- Supervisory control and data acquisition (SCADA)
- Methods of monitor, collect, and process data in real-time
- Theory of recording events data into a log file
- Control industrial processes locally or remotely methods & applications

Module #3

- (PLC) systems
- Multiple distributed controller's description
- Sensors, actuators theory of operation
- Instrumentation control panels and hazardous location panels and their uses

EXPERT

EXPERT & PROFESSIONAL EXCELLENCE FOR TRAINING & CONSULTATIONS

Module #4

- Hazardous location panels
- Hazardous location (HAZLOC) panels and explosion proof control panels classified areas
- Hazardous location (HAZLOC) panels applicable standards
- Selectivity criteria (environmental specifications - explosion protection - purging or pressurization requirement (if needed) - electrical enclosure modification

Module #5

- Human machine interface (HMI), logic solvers, historian, common database, alarm management.
- Distributed control systems how to provide the industry's system availability- enterprise-wide interoperability- extensive advanced solutions - increase productivity and improve plant operations.
- Case studies
- Summery

Location	Expert Headquarter
Start Date	02 Feb 2025
End Date	06 Feb 2025
Fees	3000 \$