GLOBAL TRAINING INSTITUTE

Process Control Fundamentals



GTI - Coordination Office and International Relations (Accredited Programs)

Course Description

This course provides a comprehensive introduction to the principles and practices of process control, focusing on the design and implementation of control systems in various industries.

Who Should Attend

- Process Engineers
- Control Systems Engineers
- Instrumentation Technicians
- Operations and Maintenance Personnel

Course Objectives

- Understand the basic concepts of process control and automation.
- Learn about different types of control systems (open-loop and closed-loop).
- Analyze control loops and their components.
- Develop skills in tuning control loops for optimal performance.
- Explore various process control strategies and techniques.
- Gain practical experience with process control simulations.

Course Content

- Introduction to Process Control
- Control System Components
- Open-loop vs. Closed-loop Control
- Control Loop Analysis
- Tuning Control Loops
- Control Strategies (PID, Feedforward, etc.)
- Instrumentation and Sensors in Process Control
- Control System Design
- Case Studies in Process Control
- Hands-on Simulation Exercises