

# € TRAINING

Panel Operator





# Panel Operator

## Introduction:

Overseeing and controlling industrial processes from a centralized panel is the responsibility of a panel operator. This role ensures operational efficiency, safety, and quick response to system variations or emergencies. This training program is designed to equip participants with the knowledge and skills needed to operate and monitor control panels in industrial settings effectively.

## Program Objectives:

By the end of this program, participants will be able to:

- Explore the role and responsibilities of a panel operator.
- Monitor and control processes using industrial control panels.
- Identify and troubleshoot operational issues.
- Follow safety and emergency response procedures.
- Communicate effectively with field operators and supervisors.

## Target Audience:

- Plant Operators.
- Control Room Operators.
- Process Technicians.
- Maintenance Technicians.
- Industrial Workers involved in process operations.

## Program Outline:

### Unit 1:

#### Fundamentals of Control Panel Operations:

- Overview of control panel components and functions.
- Understanding process flow diagrams PFDs and piping and instrumentation diagrams P&IDs.

- Roles and responsibilities of a panel operator.
- Basic operating procedures and system controls.
- Introduction to Distributed Control Systems DCS and SCADA systems.

## Unit 2:

### Process Monitoring and Control:

- Techniques for monitoring system parameters temperature, pressure, flow rates.
- Using alarms and indicators to detect issues.
- Controlling process variables to ensure system stability.
- Adjusting setpoints and operating conditions.
- Logging and reporting operational data accurately.

## Unit 3:

### Troubleshooting and Problem Solving:

- Identifying common issues in control panel operations.
- Diagnosing and responding to system alarms.
- Steps for troubleshooting process deviations.
- How to coordinate effectively with field operators to resolve issues.
- Documentation of troubleshooting activities and solutions.

## Unit 4:

### Safety and Emergency Procedures:

- Understanding safety protocols and hazard identification.
- Emergency shutdown ESD procedures.
- Responding to process upsets and equipment failures.
- Handling hazardous materials and situations.
- Following industry regulations and safety standards.

## Unit 5:

### Communication and Coordination:

- Effective communication with field operators and supervisors.
- Reporting process deviations and emergencies.
- Shift handover procedures and best practices.
- Team coordination for efficient operations.
- Maintaining situational awareness in the control room.