



Consulting and Training | Reach New Heights

Course Name

Process Instrumentation Selection and Installation

Sector Name

Instrumentation & Controls

Document Type

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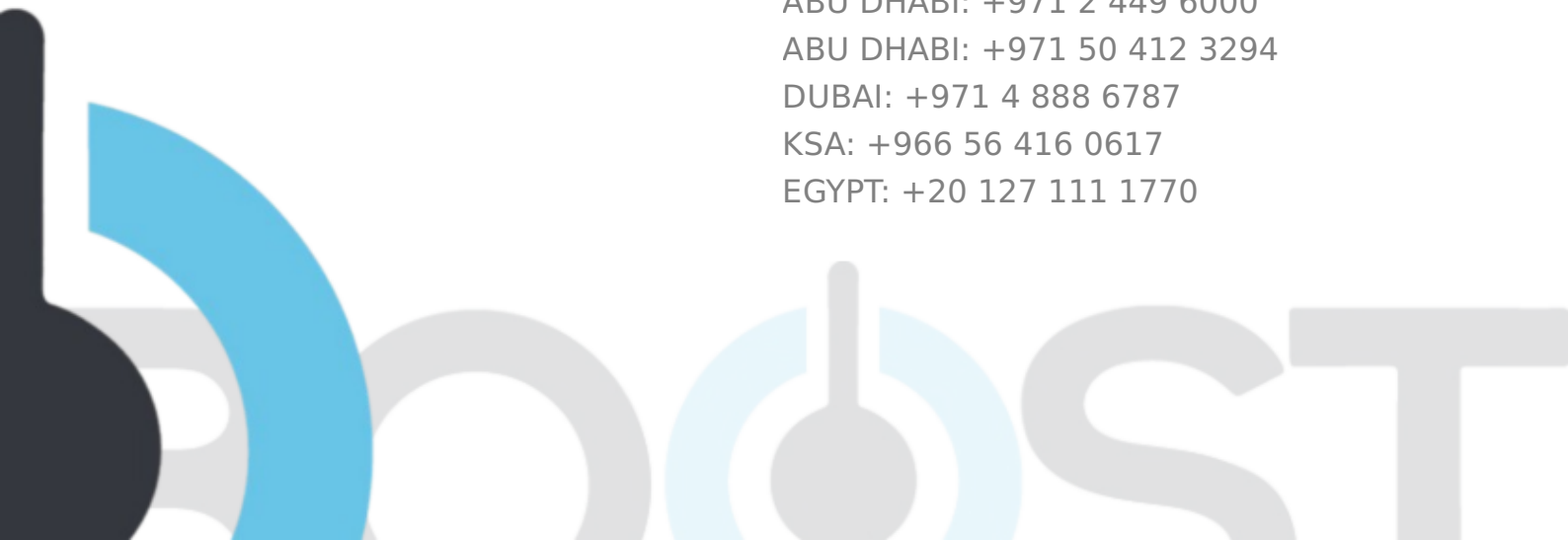
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Process Instrumentation Selection and Installation

Course Introduction

The Process Instrumentation Selection and Installation course provides participants with a comprehensive understanding of selecting the right instrumentation for industrial applications and ensuring proper installation for optimal performance.

This course covers key aspects of instrumentation, including types, selection criteria, installation best practices, calibration, and troubleshooting. By the end of the training, participants will be equipped with the knowledge and skills to enhance process efficiency, safety, and reliability through proper instrumentation selection and setup.

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Process Instrumentation Selection and Installation

Target Audience

- ✓ Engineers involved in process instrumentation and control
- ✓ Technicians responsible for installation and maintenance
- ✓ Maintenance personnel ensure instrumentation reliability
- ✓ Automation specialists handling process control systems
- ✓ Compliance officers oversee regulatory requirements

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Process Instrumentation Selection and Installation

Learning Objectives

- ✓ Understand the fundamentals of process instrumentation and its role in industrial applications.
- ✓ Identify different types of instrumentation (pressure, temperature, flow, level, etc.) and their applications.
- ✓ Apply selection criteria for choosing the right instrument based on process requirements.
- ✓ Learn best practices for instrumentation installation and integration.
- ✓ Understand wiring, signal transmission, and communication protocols.
- ✓ Gain knowledge of instrument calibration and validation techniques.
- ✓ Troubleshoot common instrumentation issues and ensure long-term reliability.
- ✓ Implement safety considerations and compliance requirements for instrumentation systems.

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Process Instrumentation Selection and Installation

Course Outline

✓ 01 Day One

Module 1: Introduction to Process Instrumentation

- ✓ Overview of process instrumentation in industrial applications
- ✓ Importance of accurate measurement and control
- ✓ Types of instruments and their classifications

Module 2: Types of Process Instrumentation

- ✓ Flow measurement devices (orifice plates, venturi meters, magnetic, ultrasonic, Coriolis, etc.)
- ✓ Pressure measurement instruments (gauges, transmitters, differential pressure)
- ✓ Temperature measurement (thermocouples, RTDs, infrared sensors)
- ✓ Level measurement (radar, ultrasonic, float, capacitance)

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Course Outline

✓ 02 Day Two

Module 3: Instrument Selection Criteria

- ✓ Factors affecting instrument selection (process conditions, accuracy, reliability, cost)
- ✓ Compatibility with process fluids, temperature, and pressure ranges
- ✓ Communication protocols (4-20mA, HART, Modbus, Foundation Fieldbus)

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Course Outline

✓ 03 Day Three

Module 4: Installation Best Practices

- ✓ Installation guidelines for different types of instruments
- ✓ Wiring and grounding considerations
- ✓ Signal transmission and protection against interference
- ✓ Integration with DCS, SCADA, and PLC systems

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Course Outline

✓ 04 Day Four

Module 5: Calibration and Validation of Instruments

- ✓ Importance of calibration in process control
- ✓ Calibration techniques for different instruments
- ✓ Validation and performance verification

Module 6: Troubleshooting and Maintenance

- ✓ Common instrumentation faults and how to diagnose them
- ✓ Preventive maintenance strategies
- ✓ Ensuring long-term performance and reliability

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Process Instrumentation Selection and Installation

Course Outline

✓ 05 Day Five

Module 7: Safety Considerations and Compliance

- ✓ Safety standards in instrumentation selection and installation
- ✓ Hazardous area classifications and explosion-proof instruments
- ✓ Regulatory requirements and industry standards (IEC, ISA, ANSI, API)

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Process Instrumentation Selection and Installation

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 9, 2027	Aug. 13, 2027	5 days	5950.00 \$	USA , Los Angeles
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	Qatar , Doha
Nov. 30, 2026	Dec. 4, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai

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