



*Training Course:
Fluid Flow Control in the Process Industry*

*16 - 20 May 2027
Cairo (Egypt)*

Training Course: Fluid Flow Control in the Process Industry

Training Course code: EN6047 From: 16 - 20 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Fluid flow control is a critical aspect of process industry operations, directly influencing efficiency, safety, product quality, and system stability. Effective control of liquids and gases ensures optimal performance of pipelines, reactors, and processing units.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to understand, design, and manage fluid flow control systems in industrial processes.

Course Objectives

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

- Understand principles of fluid flow and control mechanisms
- Identify and select control devices such as valves, pumps, and regulators
- Analyze flow behavior and system dynamics
- Apply control strategies for stable and efficient operations
- Integrate instrumentation and control systems
- Troubleshoot flow-related issues
- Optimize system performance and energy efficiency
- Ensure safe and reliable operation

Target Audience

This program is designed for:

- Process and Chemical Engineers
- Mechanical and Piping Engineers
- Instrumentation and Control Engineers
- Maintenance and Operations Personnel
- Oil & Gas and Industrial Professionals
- Technical staff involved in fluid systems

Outline

Day 1: Fundamentals of Fluid Flow

- Fluid properties density, viscosity
- Flow regimes laminar, turbulent
- Pressure and flow relationships
- Basic fluid mechanics concepts
- Industrial applications

Day 2: Flow Control Devices and Equipment

- Valves control, relief, isolation
- Pumps and compressors
- Flow regulators and controllers
- Selection and sizing of equipment
- Installation considerations

Day 3: Flow Measurement and Instrumentation

- Flow measurement techniques
- Sensors and transmitters
- Control loops and feedback systems
- Data acquisition and monitoring
- Calibration basics

Day 4: Control Strategies and System Integration

- Process control fundamentals
- PID control and tuning
- Integration with SCADA and automation systems
- System dynamics and stability
- Advanced control techniques

Day 5: Troubleshooting and Optimization

- Identifying flow-related problems
- Root cause analysis
- Performance optimization
- Energy efficiency improvements
- Case studies and real-world applications

Registration form on the Training Course: Fluid Flow Control in the Process Industry

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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