



Training Course :

Sizing, Selecting and Applying Process Control Valves

Training Course For One Week In
KSA, Jeddah, Mövenpick Hotel

Which Be Held As Under Details :



Abar Solutions Petroleum Consultancy Invite Your Employee To Participate With Us In Special Training Course As Under Details:

Course Name		Sizing, Selecting and Applying Process Control Valves				
Code	Period	Language	Start	End	Location	Fees
EL 21	5 Days	Bilingual (Arabic & English)	18/09/2016	22/09/2016	KSA, Jeddah, Mövenpick Hotel	1750 KD (15% For Individual Registration) & (25% For Group Registration)
			16/10/2016	20/10/2016		
			13/11/2016	17/11/2016		
			18/12/2016	22/12/2016		
			15/01/2017	19/01/2017		
			19/02/2017	23/02/2017		
			19/03/2017	23/03/2017		
			16/04/2017	20/04/2017		
			14/05/2017	18/05/2017		
			18/06/2017	22/06/2017		
			16/07/2017	20/07/2017		
			20/08/2017	24/08/2017		
** The Fees Includes : Lecturer , Training Material , Training Room With One Coffee Break Daily , Certificate Of Attendance In Last Day Training Course **						

Course Description

- ⇒ Extensive course materials provided contained useful information about valves/sizing and selection both theoretical and practical. You will gain a practical understanding of control valves, actuators, and positioner designs and their applications. The course also provides methods that can be used to identify specific valve problems and arrive at acceptable solutions within engineering tolerance.

Course Objectives

- ⇒ Compare various types of final control elements
- ⇒ Understand a typical valve operation in a control loop
- ⇒ Differentiate between various types of valves and the benefits of each
- ⇒ Compare rising stem to rotary style valves
- ⇒ Analyze a control system to determine control valve needs
- ⇒ Use ISA standards for control valve specification and selection
- ⇒ Size valves for any flow condition likely to be found in a process plant
- ⇒ Evaluate and select actuators for specific applications

- ⇒ Specify appropriate auxiliaries including positioners and I/P transducers
- ⇒ Design control valve installations that are safe and trouble-free

Course Content & Outlines

- ⇒ **Introduction:**
 - Valve in Loop - Actuator
 - Positioner
- ⇒ **Basic Valve Types:**
 - Globe Valves - Ball Valves
 - Plug Valves - Butterfly Valves
- ⇒ **Actuators:**
 - Spring/Diaphragm - Piston
 - Vane - Scotch-Yoke
 - R & P
- ⇒ **Comparison:**
 - Rising Stem - Rotary Stem
 - Accessories - Positioner & I/P Converters
- ⇒ **Valve Performance:**
 - Gain - Time
 - Trim - Special Needs
- ⇒ **Flashing/Cavitation & Noise:**
 - Cause/Effect - Prevention
 - OSHA - Source and Abatement
- ⇒ **Installation:**
 - Performance, Safety and Others
- ⇒ **Valve Sizing:**
 - Valve sizing calculation Manual - Valve Sizing calculation Computer
- ⇒ **Specification and Selection:**
 - Process Requirements - Other Considerations
- ⇒ **Maintenance and Troubleshooting Considerations:**
 - Special Requirements - Diagnostic Tools
- ⇒ **Smart Valves:**
 - Available Designs - Applications in Industry
- ⇒ **Test valves to evaluate performance factors**
- ⇒ **Size valves manually and with software**
- ⇒ **Specify valves, actuators, and auxiliaries for specific applications**
- ⇒ **Evaluate operation of valves with pneumatic actuators and positioners**
- ⇒ **Smart valve/positioner operation demonstration**