



Training Course :

Configuring and Testing Smart Field Devices

Training Course For One Week In

UAE , Dubai , Cityseason Suites 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		Configuring and Testing Smart Field Devices			
Code	Period	Language	Start	End	Location
ICT 016	5 Days	Bilingual (Arabic & English)	13/08/2017	17/08/2017	UAE , Dubai , Cityseason Suites Hotel
			03/09/2017	07/09/2017	
			08/10/2017	12/10/2017	
			12/11/2017	16/11/2017	
			10/12/2017	14/12/2017	
			14/01/2018	18/01/2018	
			11/02/2018	15/02/2018	
			11/03/2018	15/03/2018	
			15/04/2018	19/04/2018	
			20/05/2018	24/05/2018	
			10/06/2018	14/06/2018	
22/07/2018	26/07/2018				

**** The Fees Includes : Lecturer , Training Material , Training Room With One Coffee Break Daily , Certificate Of Attendance In Last Day Training Course ****

Course Description

⇒ This 5 day course offers a broad perspective of smart field devices, including transmitters and valve -positioners. The emphasis is on more reliable information gathering, decreased maintenance time, ease-of-use, and multi-tasking capabilities. You will cover use in conventional systems, and enhancements/improvements when combined with digital control networks

Course Objectives

- ⇒ Differentiate between analog and digital instruments
- ⇒ Understand how digital signal sampling works in digital instruments
- ⇒ Identify the strengths and weaknesses of digital instruments
- ⇒ Explain the basics of serial digital communications
- ⇒ Understand the effects of using digital instruments in closed loop control
- ⇒ Configure and calibrate smart/digital field devices
- ⇒ Configure intelligent control valves
- ⇒ Recognize the capabilities of HART™ communication
- ⇒ Understanding digital multivariable transmitter

Course Content & Outlines

⇒ **Analog vs. Digital Instruments:**

- Analog Limitations,
- Calibration of Analog vs. Digital Instruments, and
- Flexibility of Digital Instruments

⇒ **Digital Signal Sampling:**

- Sampled Signal Characteristics,
- Output of A/D Converter
- Slow Sampling

⇒ **Strength and Weaknesses of Digital Instruments:**

- Effect on Performance,
- Multiple Measurement,
- Programming for Field Level Control,

- Future Development

⇒ **Intelligent Control Valves:**

- Digital Positioners,
- Diagnostic Tools,
- Adding PID Controllers to Control Valves

⇒ **Serial Digital Communications:**

- Parallel to Serial Converter,
- Modem

⇒ **HART™ Communication:**

- Features,
- Master/Slave Communications,
- Point-to-Point,
- Capabilities of HART™

⇒ **Proprietary Bus Systems:**

- Overview of Bus Systems,
- Need for Open Bus System

⇒ **SP50 Fieldbus:**

- What It Is,
- How Instruments Operate

⇒ **Intelligent Multivariable Transmitters:**

- How they work,
- How they can transmit multiple variables