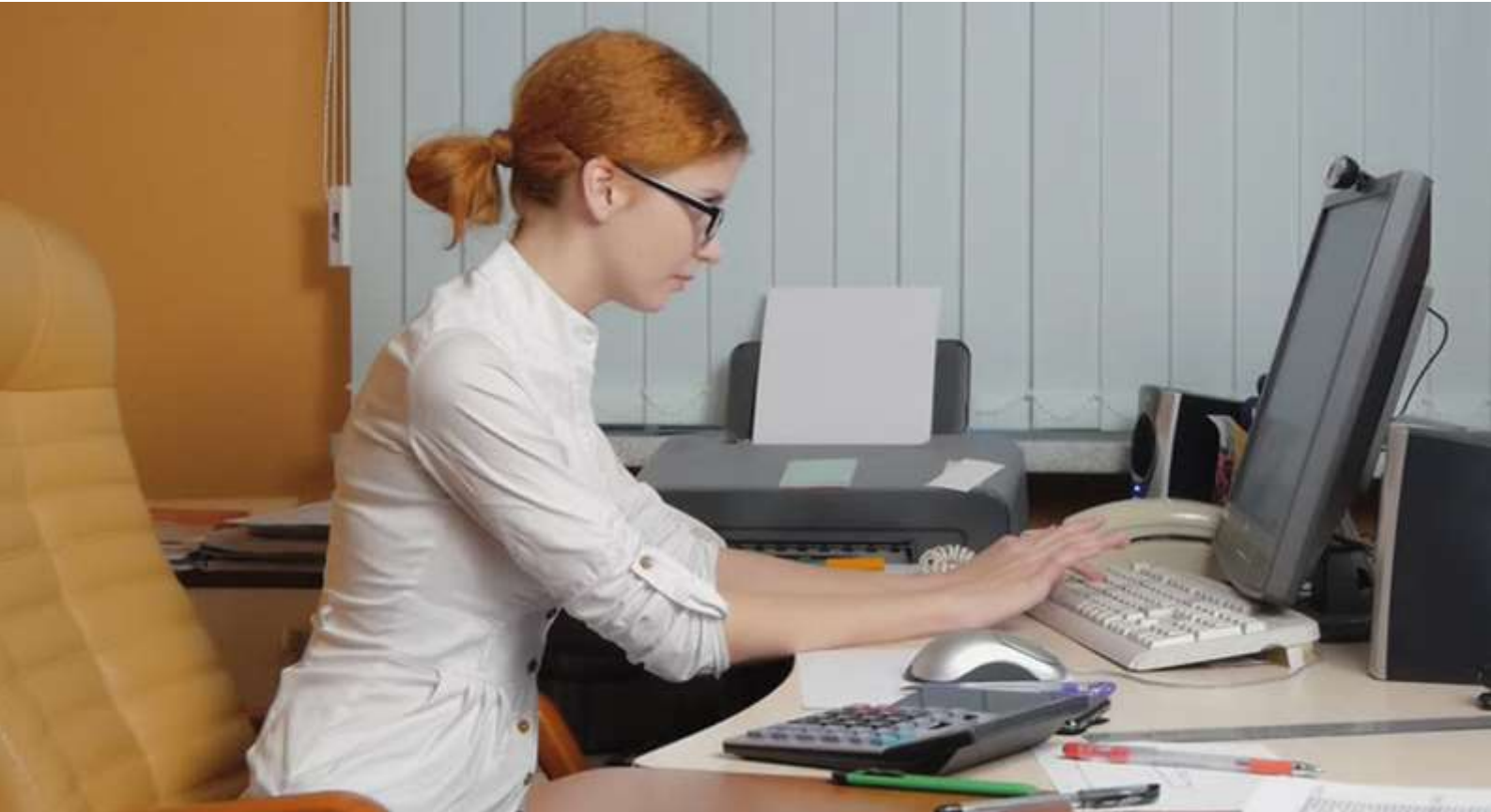




Course Name

SMART PLANT INSTRUMENTATION SPI / INTOOLS

It Helps In Accessing And Updating The Instruments Used For Different Tasks And Ensures That The Consistency Is Maintained In The Project.



Reach New Heights | Training & Consulting
An ISO 14001:2015 ISO 9001:2015 Certified Company



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Duration:
Five Days



Location:
TBD



Date:
TBD





Few Words About Boost

Our solutions are fully customized and designed based on the needs of our clients

BASED IN ABU DHABI
SINCE 2001
WE HAVE A PROVEN TRACK



VISION

"The only thing worse than being blind is having sight but no vision".

To be recognized as the partners' first choice in the field of Learning and Development locally and globally



MISSION

Enable our partners achieving their objectives

by designing innovative learning and development solutions which will boost people performance and business results as well.



VALUES

Driven by five core values which will form the basis for every decision...

- ✓ Result Orientation
- ✓ Partners' Success
- ✓ Passion
- ✓ Commitment
- ✓ Innovation

Why Us?

- 01 Interactive Engaging Courses
- 02 Recognized Certificates
- 03 Wide Range Of Training Subjects
- 04 Global Training Centers
- 05 In-House & Customized Courses
- 06 Internationally Certified Instructors
- 07 Advanced Reporting System



10,000 People Trained a Year, with 98% Satisfaction Rating

Our talented team of international instructors have exceptional credentials complemented by practical, real-world experience.

SUSTAINABLE SUCCESS

Ever since the firm was founded, Excellence, in one form or another, was part of its credo. The prospect of doing a good job might help a company climb the success ladder but it won't keep the company 'up there'.



American Welding Society
EDUCATIONAL INSTITUTION MEMBER





COURSE INTRODUCTION

SMART PLANT INSTRUMENTATION SPI / INTOOLS



Duration:

Five Days



Location:

TBD



Date:

TBD

Smartplant Instrumentation Is A Product Introduced By Intergraph. It Was Formerly Known As The Intools. The Software Acts As A Single Instrumentation Source That Is Used In The Engineering, Procurement, And Construction (Epc) Projects. It Helps In Accessing And Updating The Instruments Used For Different Tasks And Ensures That The Consistency Is Maintained In The Project.

OBJECTIVES

This course focuses on providing the understanding about the System and Project Overview, processing of data, making the loop diagrams to know the processes. Also, the SmartPlant Instrumentation/INtools online training program, focusing on the latest course curriculum, is imparted by the expert trainers, providing knowledge of Calculations, Foundation Fieldbus, External Spec Editor, Hook-ups and Specifications

TRAINING METHODOLOGY

Throughout this course, the attendees will have the opportunity to practice their skills through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson. The following are our tools for course conduction:

- ✓ Pre-Assessment Questionnaire for use before the Course
- ✓ Post-Assessment Questionnaire for use after the Course
- ✓ Lectures, Demonstrations, Group Exercises & Case Studies
- ✓ Visual aid (Video Simulation) to increase the efficiency of the information
- ✓ Evaluation Questionnaires (Course, Instructor, & Administration)





Course Outline

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Five Days



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COURSE INTRODUCTION

- ✓ Introduction to Smart Plant Instrumentation Course
- ✓ Smart Plant Instrumentation Glossary
- ✓ SPI Course Requirements
- ✓ Smart Plant Instrumentation Glossary

SYSTEM ADMINISTRATOR TOOLS & ACTIVITIES

- ✓ 01 Administration Tasks
- ✓ 02 What is Domain Name in SPI and how to set it up?
- ✓ 03 How to create Departments in Smart Plant Instrumentation?
- ✓ 04 Setting up Access Levels in SPI
- ✓ 05 Hierarchy in SPI
- ✓ 06 Naming Conventions
- ✓ 07 Custom fields & Tables
- ✓ 08 Adding Users-Access Rights
- ✓ 09 limiting access
- ✓ 10 Reports in SPI
- ✓ 11 Adding logo to the SPI database



UNIT & DATABASE PREPARATION FOR SPI

- ✓ Units of calculation and preferences

INSTRUMENTATION ENGINEER ACTIVITIES

- ✓ 01 What is "Instrument Type" in Smart Plant Instrumentation?
- ✓ 02 What is Device Panel in SPI and how to set it up successfully?
- ✓ 03 DP Transmitter Flow Set up
- ✓ 04 Device Panel positioners
- ✓ 05 Valve Profiles
- ✓ 06 Project 1 : Create and Modify the Instrument Types of the selected List
- ✓ 07 Project 1_Additional Instrument Types
- ✓ 08 Project 1 Solution
- ✓ 09 How to Create P&ID Drawings in SPI?
- ✓ 10 How to Create Pipes in SPI?





Course Outline

SMART PLANT INSTRUMENTATION SPI / INTOOLS



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Location:
TBD



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TBD

- ✓ 11 Solution How to Create Pipes in SPI
- ✓ 12 Custom Tables
- ✓ 13 Create Instrument Loops
- ✓ 14 Tag and Loop using the Instrument Index Module in SPI
- ✓ 15 Duplicating a Loop and its tags in SPI
- ✓ 16 How to create multiple local instruments using Macros
- ✓ 17 Creating multiple loops using Macros.



WORKING WITH PROCESS DATA, PERFORMING CALCULATIONS AND PRODUCING DELIVERABLES

- ✓ 01 Process Information
- ✓ 02 How to copy data from line to instruments?
- ✓ 03 Automatic Data Copy
- ✓ 04 Troubleshooting Process Data Creation
- ✓ 05 Sizing and Calculations

WIRING OPERATIONS IN SPI

- ✓ Wiring introduction
- ✓ Junction Box Definition
- ✓ Marshaling Cabinet Definition
- ✓ DCS Cabinet Definition
- ✓ Junction Box in Domain Explorer
- ✓ Reference Cable Definition
- ✓ Reference Cable in Domain Explorer
- ✓ Making Connections
- ✓ Field Side Connections to the Marshaling Cabinet
- ✓ DCS Side Connections to the Marshaling Cabinet
- ✓ Performing Cross Wiring
- ✓ Adding a New Instrument
- ✓ Connect New Instrument
- ✓ Connect Instrument to the Safety Barrier
- ✓ Perform Thermocouple Wiring to the Transmitter
- ✓ Adding Flow Transmitter and Local Flow Indicator Using Jumpers

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GENERATING LOOP DRAWINGS

- ✓ Set Preferences
- ✓ Apply Generation Methods
- ✓ Generating a Loop
- ✓ Modifying an Existing Loop- Part 1
- ✓ Modifying an Existing Loop- Part 2
- ✓ Add Labels Using Macro
- ✓ Apply Filter to Micro
- ✓ Adding Watermark to the Drawings
- ✓ Adding Annotations to the Drawings

HOOK-UP DRAWING

- ✓ Setting Preferences
- ✓ Creating Hook-Up Libraries
- ✓ Making Hook-Up Types
- ✓ Associating Hook-up and Instruments
- ✓ Viewing symbol contents
- ✓ Associating Items with Hook-ups
- ✓ Generating BOM and Hook-up Drawing
- ✓ Hook-up Items Library



- ✓ Field Bus
- ✓ External Spec Editor
- ✓ External Process Data Editor
- ✓ Integration Specific to SPI
- ✓ Discussions





Course Name

SMART PLANT INSTRUMENTATION SPI / INTOOLS

THANK YOU

For any clarification or information. Please do not hesitate to contact us

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