SmartPlant Instrumentation for Beginners

Day 1 Introduction to Smart Plant Instrumentation
What SPIN is and is not
Instrument Index
Creating, modifying and deleting Loops, Tags, Instrument Types etc
Browser
Creating, modifying and deleting Browser Views, Filters and saving to Excel
Day 2 Process Data and Calculations
Performing sizing calculations, process data reports, interface with other SPIN modules
Specifiction Sheets
Spec Sheet data, creating and modifying spec sheets
Day 3 Wiring
Creating new default and production wiring objects (panels, strips, terminals, apparatus, cables)
Connecting objects, signals, general signal
Day 4 Enhanced Smart Loop
Symbols, symbol libraries, layouts, templates and title blocks
Day 5
Cable schedules, reporting, cross wiring and IO allocations.

SmartPlant Instrumentation for Users

Topics Covered:
☐ System and Project Administration Overview

☐ Instrument Index

☐ User Report Interface (Browser Module)

- Process Data
- Calculations
- Specifications
- Wiring
- Loop Diagrams
- Hookups (Installation Details)
- Brief overview of: Field Bus, External Spec Editor, External Process Data Editor and Integration Specific to SPI

SmartPlant Instrumentation Customization and Data Management

Topics Covered:
- SmartPlant Instrumentation database overview
- Introduction to InfoMaker - libraries, queries, reports
- Intro to Creating and customizing reports in InfoMaker
- Intro to Customizing specifications internally and using InfoMaker
- Setting up MS Access for reporting
- Intro to Data import
- Intro to Use of Merger utility
- Interfaces - P&ID (basic installation of import links only), DCS, vendor calculation software
- External Spec Editor
- Intro to Field Bus
- Revisions and revision control

SmartPlant Instrumentation Advanced Wiring and Reporting

Topics Covered:
- Using new wiring equipment entities to create "real world" panel layouts
- Panel location and hierarchy setup
- Working with Explorers - Domain, Reference, Wiring and Loop
- Networked wiring design - Foundation Fieldbus, Profibus and HART devices wiring (optional)
- Room, Panel, and Rack Layout drawing creation
- Customization of SmartPlant Report Generator Symbols
- Expanded Field Bus design

SmartPlant Instrumentation version UPDATE

Topics Covered:
- Practical considerations and requirements for upgrade to version 2009
- New Library of Specification Forms
- Cross Form mapping (multi-Specification Form Browsers)

- Defining page size for a multi-tag Specification page
- Additional fields added to the Index Browse View
- User defined macro functions for SmartLoop Macros
- Enhancements in Custom Loop generation
- External Validation and Calculation functionality in Rule Manager
- Updated Pipe Standards table in the Process Data Module
- Calibration Module enhancements
- Changing Fieldbus tags back to Conventional
- Administration Module enhancements and additions
- Enhancements to SmartPlant Instrumentation Interfaces

InfoMaker Customization

Topics Covered:
- Standard operations in InfoMaker
- Database connections
- Libraries
- Queries and Reports in InfoMaker
- Using PSR files within SmartPlant Instrumentation
- Creating executable report
- Specification customization:
  - Using SP_STYLE.PBL
  - Customizing Spec forms within SmartPlant Instrumentation
  - Customizing Spec forms in InfoMaker
- Customizing Title Block
- Creating custom PowerSoft Browser
- Instrument Index Browse customization