Course description

T311
System 800xA
Process Engineering Tool Integration for INtools®®®

Course goal
The goal of this course is to learn the engineering of the Extended Automation System 800xA with AC 800M control using instrument design data from Intergraph PPM’s Smart Plant Instrumentation, Powered by INtools®.

Learning objectives
Upon completion of this course, the participants will be able to:
- Install interface software on System 800xA
- Install interface software on INtools PC
- Prepare System 800xA for synchronization with INtools® database
- Define map of INtools® object types and their properties to 800xA object types and associated properties
- Create 800xA control objects by synchronizing Areas of process instruments from INtools® database with Areas of process control objects in 800xA – using PCDeviceLib workflow or FunctionDesigner workflow
- Identify objects with property value differences between INtools® database and 800xA
- Perform the bidirectional synchronization of properties
- Reconcile manually created / renamed objects in 800xA
- Override object types and append ad-hoc properties via intermediate Access database
- View change log

Participant profile
This training is targeted to control and application engineers.

Prerequisites
Students should have attended either the Basic Configuration course T314 or the Engineering course T315 or have knowledge and experience associated with the content of these courses.
This course includes some content related to INtools® product but it is expected that attendees are trained on INtools® by Intergraph PPM.

Topics
- Overview 800xA Process Engineering Tool integration
- Installation
- Preparing System 800xA
- Property Map definition
- Data transfer in Express Synch Mode
- Data transfer in Expert Synch Mode
- Security
- Backup and restore Map files
- Backup log files

Course type and methods
This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Course duration
The usual duration is 1 day.
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Course outline

Day 1

- Overview 800xA Process Engineering Tool Integration
- Installation
- Preparing System 800xA
- Property Map Definition
- Data transfer
- Security
- Backup and restore Map files
- Backup log files
- Workflows
- Object Reconciliation
- Using intermediate Access database