

Wonderware Training

Course Descriptions

Wonderware System Platform, Part 1

The Wonderware System Platform - Part 1 course is a 4-day, instructor-led course that provides lectures and hands-on labs designed to provide a fundamental understanding of the basic principles of ArchestrA and supply the knowledge necessary to develop and support applications for Wonderware Application Server 3.1.

The focus of this course is to illustrate the use of ArchestrA tools and services in the System Platform to develop a project utilizing connectivity to the field, data processing, scripts, alarms and history, using features and functionality such as Automation Objects, templates, template instances, ArchestrA Integrated Development Environment and QuickScript .NET.

This course also provides a fundamental understanding of how to utilize the InTouch Alarm DB Logger for real-time alarm recording as well as the security settings available for securing the applications.

Objective

Upon completion of this course, you will be able to:

- Create new projects using ArchestrA Integrated Development Environment
- Model the plant floor using automation objects
- Work with the alarm and history configuration in the Galaxy
- Configure ArchestrA security in the Galaxy
- Troubleshoot Wonderware Application Server applications

Audience

This training class is targeted to engineers, application developers, system integrators, and other individuals whose jobs include creating and/or maintaining a Galaxy for use with the Wonderware System Platform.

Prerequisites

- Completion of Getting Started with Wonderware Application Server web tutorial http://www.wonderware.com/training/online_training/tutorials.asp
- Manufacturing industry experience



Module 1 - Introduction

- Section 1 Course Introduction Section 2 - Wonderware System Platform Lab 1 - Creating a Galaxy Section 3 - The ArchestrA IDE Section 4 - Automation Objects Section 5 - System Requirements, Licensing and Support Section 6 - Application Planning
- Lab 2 Identifying the Mixer

Module 2 - Application Infrastructure

Section 1 - The Plant Model Lab 3 - Creating the Plant Model Section 2 - The Deployment Model Lab 4 - Creating the Deployment Model Section 3 - The Runtime Environment Lab 5 - Using Object Viewer Section 4 - Connecting to the Field Lab 6 - Connecting to the Field

Module 3 - Application Objects

Section 1 - Templates and Instances Section 2 - The \$UserDefined Object Lab 7 - Modeling the Heat Exchanger Section 3 - Change Control and Propagation Lab 8 - Configuring Change Control and Propagation Section 4 - The \$AnalogDevice Object Lab 9 - Modeling a Meter Section 5 - The \$DiscreteDevice Object Lab 10 - Modeling a Valve, Pump, and Motor Section 6 - Containment Lab 11 - Creating the Mixer

Module 4 - Extending the Objects

Section 1 - UDAs Section 2 - Extensions Lab 12 - Configuring the Motor Speed Section 3 - Introduction to QuickScript.NET Lab 13 - Adding Auto Reconnect to DDESuiteLinkClient Lab 14 - Configuring Automatic Reference

Module 5 - Alarms and History

Section 1 - Alarms Lab 15 - Configuring Alarms Section 2 - Historization Lab 16 - Configuring History

Module 6 - Security

Section 1 - Security Overview Lab 17 – Security

Module 7 - Galaxy Maintenance

Section 1 - Exporting and Importing Objects Section 2 - Configuring Instances Through a .CSV File Section 3 - System Management Console (SMC) Section 4 - Network Account Utility

Module 8 - Device Integration Products

Section 1 - Wonderware I/O Servers Section 2 - Wonderware Data Access Servers Section 3 - Device Integration Objects

Module 9 - Multi-Node Applications

Section 1 - Application Redundancy Lab 18 - Configuring Application Redundancy Section 2 - DI Redundancy Lab 19 - Configuring the Redundant DI Object Section 3 - Multi Node Application Lab 20 - Convert to Network Environment