

InTouch for System Platform 2012

Course Description

The InTouch for System Platform 2012 course is a 5-day, instructor-led class designed to provide a fundamental understanding of the features and functionality of how the ArcestrA Application Server provides visualization for your plant galaxy data using ArcestrA Symbols by seamlessly integrating the InTouch for System Platform software.

The focus of this course is to illustrate the use of visualization tools in the Wonderware Application Server to provide a Human Machine Interface (HMI) utilizing connectivity to the Galaxy, graphic symbols, animations and scripting features and functionality found in InTouch WindowMaker, ArcestrA Symbols, the ArcestrA Symbol Editor and QuickScript.NET.

The course will use lectures and hands-on labs to provide a fundamental understanding and reinforce the knowledge of how to apply alarm, trending and history controls for visualization, and how to secure an InTouch application.

Objectives

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

- Create and deploy new InTouch Managed applications using the ArcestrA IDE
- Create ArcestrA Symbols
- Embed ArcestrA Symbols in Automation Objects and reference the object's attributes
- Use ArcestrA Symbols in a containment relationship
- Work with the ArcestrA Alarm Client control for alarm visualization
- Work with the ArcestrA Trend Client control for real-time trending
- Work with the Historian Client Trend control for historical trending
- Apply ArcestrA security in an InTouch Managed application

Audience

- Application developers
- Engineers
- System Integrators
- Other individuals who need to develop Galaxies for system Platform applications

Prerequisites

- Attendance of the **Application Server** course
- Attendance of the **Historian Client** course is recommended to obtain knowledge of the **Historian Client Trend** component
- Manufacturing industry experience
- Some graphical design experience helpful

Course Outline

Module 1 – Introduction

Section 1 – Course Introduction

Section 2 – Wonderware System Platform Review

Section 3 – ArchedrA Visualization Overview

Section 4 – System Requirements and Licensing

Module 2 – Application Design Basics

Section 1 – Development Environment and InTouch Windows

Section 2 – ArchedrA Symbols Overview

Section 3 – Runtime Environment and Application Deployment

Module 3 – ArchedrA Symbols Basics

Section 1 – ArchedrA Objects and Symbols

Section 2 – ArchedrA Symbol Editor

Section 3 – Basic Tools and Animations

Section 4 – ArchedrA Symbols in Contained Objects

Section 5 – Basic Windows Controls

Section 6 – The Owning Object Property

Module 4 – ArchedrA Symbols Creation

Section 1 –Tools and Animations

Section 2 – Custom Properties

Section 3 – Scripts in ArchedrA Symbols

Section 4 – Quality and Status Display

Module 5 – More on ArchedrA Symbols

Section 1 – Show symbol and Hide Symbol Animations

Section 2 – ShowGraphic Script Function

Section 3 – Creating a Document Viewer

Module 6 – Alarm Visualization

Section 1 – ArchedrA Alarming Review

Section 2 – Live Alarms Visualization

Section 3 – Logged Alarms Visualization

Module 7 – Trend Visualization

Section 1 – Historization Review

Section 2 – Historian Client Trend Control

Section 3 – Arcestra Trend Client Control

Module 8 – Security

Section 1 – Security Overview

Section 2 – Signed Writes

Section 3 – Signed Alarms

Section 4 – Customization of the Runtime Environment