



# Wonderware Training

## Course Descriptions

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### InTouch Software for System Platform

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The InTouch Software for System Platform Course is a four-day instructor-led course designed to teach the basic principles of how Wonderware Application Server 3.1 provides visualization of your plant galaxy data using ArchedrA Symbols within the InTouch 10.1 for System Platform software. The focus of this course is to illustrate the use of visualization tools in the System Platform to provide a Human Machine Interface (HMI) utilizing connectivity to the Galaxy, graphic symbols, animations and scripting features and functionality found in InTouch WindowMaker, ArchedrA Symbols, the ArchedrA Symbol Editor, and QuickScript.NET.

This course will also provide you with a fundamental understanding of how to utilize the alarm controls for alarm visualization, ActiveFactory controls for history visualization, and how to secure the application.

#### Objective

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

- Create new InTouch Managed Applications
- Create new ArchedrA Symbols
- Work with the alarm controls for alarm visualization
- Apply the ActiveFactory controls for real-time and history trending
- Use ArchedrA security in an InTouch Managed Application

#### Audience

Engineers, application developers, system integrators, and other individuals whose jobs include creating and/or maintaining HMI applications for use with the Wonderware System Platform.

#### Prerequisites

The prerequisites for this course are:

- Attendance of the Wonderware System Platform - Part 1 course is required to obtain knowledge of the Wonderware Application Server
- Attendance of the Wonderware System Platform - Part 2 course is recommended to obtain knowledge of the ActiveFactory software
- Manufacturing industry experience
- Some graphical design experience helpful

#### Course Outline

##### Module 1 - Introduction

Section 1 - Course Introduction

Section 2 - Wonderware System Platform Review

Lab 1 - Creating and Deploying a Galaxy

Section 3 - ArchedrA Visualization

Lab 2 - Creating a New InTouch Application

Section 4 - System Requirements, Licensing and Support

## **Module 2 - InTouch**

Section 1 - Development Environment  
Section 2 - ArcestrA Symbols  
Lab 3 - Building the Application Layout  
Section 3 - Runtime Environment  
Lab 4 - Deploying an InTouch Application

## **Module 3 - ArcestrA Symbols**

Section 1 - ArcestrA Symbol Editor  
Section 2 - Animation  
Lab 5 - Creating a new ArcestrA Symbol  
Section 3 - Custom Properties  
Lab 6 - Using Custom Properties  
Section 4 - Scripts  
Lab 7 - Creating a Resizable Analog Meter  
Section 5 - Advanced Features  
Lab 8 - Creating a Web Browser  
Section 6 - ArcestrA Objects and Symbols  
Lab 9 - Creating a \$DiscreteDevice Two-State Command  
Lab 10 - Creating the Mixer Display  
Section 7 - Advanced Editing  
Lab 11 - Switching between Mixers using a Tabbed Display  
Lab 12 - Creating a Popup Symbol  
Lab 13 - Using Dynamic Reference for Custom Properties  
Section 8 - Quality and Status Display  
Lab 14 - Adding Status Display to the TemperatureMeter

## **Module 4 - Alarm Visualization**

Section 1 - ArcestrA Alarming Review  
Section 2 - Alarm View Controls  
Lab 15 - Building a Live Alarm Display  
Lab 16 - Building a Historical Alarm Display  
Lab 17 - Creating a Live Popup Alarm Display

## **Module 5 - History Visualization**

Section 1 - ArcestrA Historization Review  
Section 2 - ActiveFactory Controls  
Lab 18 - Building a Historical Trend Display  
Section 3 - ArcestrA Trend Client  
Lab 19 - Creating a Live Popup Trend Display

## **Module 6 - Security**

Section 1 - ArcestrA Security Review  
Lab 20 - Use Security Features in Graphics  
Section 2 - Bulletproofing the Application  
Module 7 - Runtime Language Switching  
Section 1 - Runtime Language Switching