



## Wonderware Training Course Descriptions

### **InTouch 10 HMI – Fundamentals of Application Development**

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P/N WW-IT-FUN

The InTouch® HMI Fundamentals of Application Development course is a 4-day, instructor-led class designed to teach the basic functionality of the Wonderware® visualization module. The purpose of this course is to give you the InTouch® HMI knowledge necessary to develop a Human Machine Interface (HMI) for their specific plant floor environment using basic InTouch® HMI elements. This HMI system will be developed using many of the InTouch® HMI software features/ functionality such as WindowMaker, Tagnames, Animation, Cells and Symbols, SmartSymbols, Scripting, Alarms, RealTime and Historical Trending, Advance Tag Functionality, Security, Application Backup. In addition, this course provides introductory material about creating managed InTouch applications, as well as basic information regarding ArchestrA Graphics.

#### **Objective**

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

- Create stand-alone and managed InTouch applications
- Use WindowMaker to create windows and manipulate objects
- Create and import tags and use the Tagname Dictionary
- Define animation links and generate SmartSymbols
- Use the scripting editor to create QuickScripts
- Add alarm functionality to an application
- Insert an ArchestrA Symbol into a managed InTouch application
- View user data in real-time and retrieve data from historical archives
- Establish communication with I/O aware programs and configure and troubleshoot I/O servers
- Implement InTouch® HMI security in an application
- Backup an application
- Develop a Human Machine Interface (HMI) application for your specific plant floor environment using basic InTouch® HMI elements

#### **Audience**

Plant floor operators and managers, system administrators, system integrators, and other individuals who need to use InTouch® HMI in your manufacturing processes.

#### **Course Outline**

##### **Module 1 - Introduction**

- Section 1 - Course Introduction
- Section 2 - System Requirements, Licensing and Support
- Section 3 - Introduction to Traditional InTouch
- Section 4 - Introduction to Managed InTouch Applications

##### **Module 2 - Development Environment**

- Section 1 - Introduction
- Section 2 - Using WindowMaker
- Lab 1 - Create New Application, Windows, and Graphics

##### **Module 3 - Tagname Dictionary**

Section 1 - Tags and Tag Features  
Lab 2 - Creating Tags

#### **Module 4 - Animation Links**

Section 1 - Animation Links Overview  
Section 2 - Animating Objects  
Section 3 - Animation Links - Quick Reference  
Lab 3 - Configuring Animation Links  
Section 4 - Using SmartSymbols  
Lab 4 - Using SmartSymbols  
Lab 5- Using ArchestrA Symbols

#### **Module 5 - InTouch QuickScripts**

Section 1 - QuickScript Types  
This section will explain and define the various InTouch QuickScript types.  
Section 2 - Working with the Script Editor  
Section 3 - QuickScripts - Quick Reference  
Lab 6 - Using InTouch QuickScripts

#### **Module 6 - Alarms**

Section 1 - Alarms and Events  
Section 2 - The Distributed Alarm Object  
Lab 7 - Creating Alarms and Events

#### **Module 7 - Real-time and Historical Trending**

Section 1 - Real-time Trends  
Lab 8 - Configuring Real-time Trends  
Section 2 - Historical Trends  
Lab 9 - Configuring Historical Trends

#### **Module 8 - I/O Communication**

Section 1 - I/O Communication Protocols  
Section 2 - Wonderware I/O Servers  
Lab 10 - Configuring I/O Communication  
Section 3 - Troubleshooting I/O

#### **Module 9 - Advanced Tag Functionality**

Section 1 - Advanced I/O Functions  
Section 2 - Indirect Tags  
Lab 11 - Creating and Using Indirect Tags  
Section 3 - InTouch SuperTags  
Lab 12 - Defining SuperTags  
Section 4 - DBDump and DBLoad  
Section 5 - Optimizing the Tagname Dictionary  
Lab 13 - Deleting Tags

#### **Module 10 - Security**

Section 1 - Security Models  
Lab 14 - Establishing Security  
Section 2 - BulletProofing the Application

#### **Module 11 - Application Backup**

Section 1 - Application Backup