
Wonderware® System Platform Course - Part 2

Fundamentals of Historian 10.0, Historian Client 10.0 & Wonderware Information Server 4.0

COURSE DESCRIPTION

The *Wonderware® System Platform Course - Part 2* is a five-day instructor-led class designed to provide you with a fundamental understanding of the Wonderware software involved in information management, delivery, analysis and remote visualization for the Wonderware System Platform. Key concepts and terms associated with the Wonderware Historian 10.0, Historian Client 10.0 and Wonderware Information Server 4.0 are covered in this course. You will learn how to configure tag data to be captured using appropriate the logging and storage methods, how to ensure that data is preserved when dealing with network or server issues, how to retrieve data from the Historian using the SQL language, and how to replicate data up to a "centralized" Historian. Additionally, you will learn how to visualize and analyze data stored in the Wonderware Historian using the trending, analysis and reporting capabilities of the Historian Client software. Finally, you will learn how to use the Wonderware Information Server web portal software to implement remote visualization, reporting and data analysis.

OBJECTIVES

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

- Utilize the Wonderware Historian as a storage location for plant data from applications developed with Wonderware InTouch and the Application Server, including live and historical production data, configuration data, and business data
- Retrieve and report factory data using the Wonderware Historian Client tools
- Retrieve and report factory data using the SQL language
- Utilize the Wonderware Information Server for web visualization, reporting and analysis

AUDIENCE

Plant floor engineers and managers, system administrators, system integrators, IT professionals, and other individuals who need to implement, manage and use the Wonderware Historian, Historian Client and Information Server™ software in their manufacturing and industrial processes.

PREREQUISITES

The prerequisites for this course are:

- InTouch Basic Course or equivalent Wonderware InTouch/Application Server experience
- Knowledge of Microsoft Windows
- Knowledge of Microsoft Office (Excel and Word)
- Manufacturing industry experience
- Basic knowledge of the SQL language is recommended (www.sqlcourse.com)

Wonderware Historian - Course Outline

Module 1 - Introduction

- Section 1 – Course Introduction
- Section 2 – Introduction to the Wonderware Historian
- Section 3 – System Requirements, Licensing, and Support

Module 2 - Historian Configuration

- Section 1 – ArchestrA System Management Console Interface
- Section 2 – Configuring Historian with InTouch
- Section 3 – Configuring Historian with System Platform
- Section 4 – General Configuration

Module 3 - Data Retrieval

- Section 1 – Data Retrieval
- Section 2 – Historian Extensions for Retrieving Time-Based Data using SQL

Module 4 - Summaries and Data Replication

- Section 1 – Summarizing Data
- Section 2 – Replicating Data on a Tier-2 Server
- Section 3 – Querying Summarized and Replicated Data

Module 5 - Manual Data

- Section 1 – Data Definitions
- Section 2 – INSERT and UPDATE Query Syntax
- Section 3 – Importing Data

Module 6 - Historian Event System

- Section 1 – Event System Overview
- Section 2 – Defining Event Tags
- Section 3 – ActiveEvent

Module 7 - Historian Troubleshooting and Maintenance

- Section 1 – Historian Troubleshooting Tools and Techniques
- Section 2 – Historian Backup Strategies

Wonderware Historian Client - Course Outline

Module 1 - Introduction to the Historian Client Software

Module 2 - Historian Client Trend

Section 1 - Using Historian Client Trend Functions

Section 2 - Custom Retrieval Styles in Trend

Module 3 - Historian Client Workbook

Section 1 - Using Historian Client Workbook Basic and Advanced Functions

Module 4 - Historian Client Query

Section 1 - Using Historian Client Query for Building SQL Queries

Module 5 - Historian Client Report

Section 1 - Using Historian Client Report in MS Word

Module 6 - ActiveX Controls

Section 1 – ActiveX Controls

Section 2 – Common Properties, Methods and Events

Section 3 – Using Historian Client Controls in InTouch

Wonderware Information Server - Course Outline

Module 1 – Introduction to Wonderware Information Server

- Section 1 – Hardware and Software Requirements
- Section 2 – Wonderware Information Server License Management

Module 2 – Process Graphics

- Section 1 – Convert & View InTouch Windows Over the Web
- Section 2 – Configuring Write-Back for Factory Data Sources

Module 3 – Connecting Your Data

- Section 1 – Configuring Data Sources
- Section 2 – Alarm Database Logger Utility

Module 4 – Visualizing Factory Alarms

- Section 1 – Visualizing Factory Alarms

Module 5 – Visualizing History Data

- Section 1 – Introduction
- Section 2 – Basic Site Navigation
- Section 3 – Publishing Trend and Workbook Reports
- Section 4 – Custom Folders

Module 6 – Configuring Table Weaver

- Section 1 – Introduction
- Section 2 – Defining Data Sources
- Section 3 – Defining Queries
- Section 4 – Defining Content Units
- Section 5 – Defining Displays
- Section 6 – Defining Key Performance Indicators (KPIs)
- Section 7 – Defining Links

Module 7 – ArchestrA Reports

- Section 1 – Overview

Module 8 – Securing and Customizing Your Portal

- Section 1 – Managing Security
- Section 2 – Panel Manager
- Section 3 – Portal Configuration