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 is 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