



Course Description: System Platform - Part 2 Historian, ActiveFactory, Information Server

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 9.0, ActiveFactory™ 9.2 and the Wonderware Information Server 3.0 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 data is not lost due to network or server issues, and how retrieve data from the Historian using the SQL language. Additionally, you will learn how to visualize and analyze data stored in the Wonderware Historian using the trending, analysis and reporting capabilities of ActiveFactory software. Finally, you will learn how to use Wonderware Information Server web analysis software to implement remote visualization, reporting and 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 ActiveFactory suite of Wonderware Historian clients
- 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 IndustrialSQL Server™ Historian, ActiveFactory™ and Information Server™ software in their manufacturing processes.

PREREQUISITES

The prerequisites for this course are:

- InTouch Basic Course or equivalent Wonderware InTouch 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)



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COURSE OUTLINE

Module 1 – Introduction

- Section 1 – Course Introduction
- Section 2 – Introduction to the Wonderware Historian
- Section 3 – Introduction to ActiveFactory Software

Module 2 – Cruising the Console

- Section 1 – Archedra System Management Console Interface
- Section 2 – System Configuration
 - Lab 1 – Tag Import
 - Lab 2 – Manually add Analog Tags
 - Lab 3 – Configuration
 - Lab 4 – Historian Configuration Export

Module 3 – Data Retrieval and Time Domain Extensions

- Section 1 – Data Retrieval
- Section 2 – Historian Time Domain Extensions
 - Lab 5 – Query Examples

Module 4 – ActiveFactory Trend

- Section 1 – Introduction
 - Lab 6 – Use ActiveFactory Trend Basic Functions
 - Lab 7 – Configure Public Groups and Trend Sets
 - Lab 8 – Configure Time Offsets and Target Regions
 - Lab 9 – Advanced Properties: Retrieval Styles
- Section 2 – Custom Styles in Trend
 - Lab 10 – Create Retrieval Styles

Module 5 – ActiveFactory Workbook

- Section 1 – Introduction
 - Lab 11 – Use ActiveFactory Workbook Basic Functions
 - Lab 12 – Use Other ActiveFactory Workbook Functions
 - Lab 13 – Use the Tag Analysis Wizard
 - Lab 14 – Create an Hourly-Average Shift Report

Module 6 – ActiveFactory Query

- Section 1 – Introduction
 - Lab 15 – Use ActiveFactory Query
 - Lab 16 – Use ActiveFactory Query in Excel

Module 7 – ActiveFactory Report

- Section 1 – Introduction
 - Lab 17 – Use Report
 - Lab 18 – Wildcard Time Options and Report Editing



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Module 8 – IndustrialSQL Server Data Acquisition Service (IDAS)

Section 1 – Introduction

Section 2 – Data Acquisition

Lab 19 – Store-and-Forward

Lab 20 – IDAS Failover

Module 9 – Manual Data Acquisition Service (MDAS)

Section 1 – Data Definitions

Section 2 – INSERT and UPDATE Query Syntax

Lab 21 – Manual INSERT

Lab 22 – Corrected Data

Section 3 – MDAS

Lab 23 – Manually Insert Data Via .csv Import

Lab 24 – Manually Correct Data Via .csv Import

Lab 25 – Import InTouch History

Module 10 – Event System

Section 1 – Introduction

Section 2 – Defining Event Tags

Lab 26 – Create Events & Event View Table

Module 11 – ActiveX Controls for the Historian

Section 1 – Historian ActiveX Controls

Section 2 – Common Properties, Methods and Events

Section 3 – ActiveEvent

Lab 27 – Using ActiveEvent

Section 4 – ActiveFactory Controls

Lab 28 – Use the ActiveFactory aaHistClientTrend Control

Module 12 – Introduction to Information Server

Section 1 – Hardware and Software Requirements

Section 2 – Information Server License Management

Lab 21 – Licensing Management

Module 13 – Process Graphics

Section 1 – Convert & View InTouch Windows Over the Web

Lab 22 – Convert and View InTouch Windows Over the Web

Section 2 – Configuring Write-Back for Factory Data Sources

Lab 23 – Configuring Write-Back Access

Module 14 – Information Server Data Sources

Section 1 – Configuring Data Sources

Section 2 – Alarm Database Logger Utility

Lab 24 – Configuring Data Sources

Module 15 – Factory Alarms

Section 1 – Visualizing Factory Alarms

Lab 25 – Visualizing Factory Alarms

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Module 16 – ActiveFactory Reporting

- Section 1 – Introduction
- Section 2 – Installation and Basic Site Navigation
- Section 3 – Publishing Reports
 - Lab 26 – Publishing Trend Reports
 - Lab 27 – Publishing Workbook Reports
 - Lab 28 – Publishing Tag - and Time Bound Reports
- Section 4 – Custom Folders
 - Lab 29 – Creating Report Folders

Module 17 – Table Weaver

- Section 1 – Introduction
- Section 2 – Defining Queries
- Section 3 – Defining Content Units
 - Lab 30 – Define a Content Unit
- Section 4 – Defining Displays
 - Lab 31 – Add Custom Displays to the Content Unit
- Section 5 – Defining Key Performance Indicators (KPIs)
 - Lab 32 – Add KPIs to the Content Unit
- Section 6 – Defining Links
 - Lab 33 – Add Links to the Content Unit
 - Lab 34 – Create a Filter Query

Module 18 – MultiViews

- Section 1 – MultiViews
 - Lab 35 – Configuring MultiViews
- Section 2 – Using Web Parts in MS SharePoint

Module 19 – ArchestrA Reports

- Section 1 – Introduction

Module 20 – Information Server Security and Customization

- Section 1 – Managing Security
 - Lab 36 – User Manager
- Section 2 – Panel Manager
 - Lab 37 – Configuring Panel Manager
- Section 3 – Portal Configuration
 - Lab 38 – Portal Configuration
- Section 4 – Backup and Restore Utility