Wonderware System Platform, Part 2
(Fundamentals of Wonderware Historian and ActiveFactory)

P/N WW-HIST-1 … $ 1500

Wonderware System Platform Part 2 and Fundamentals of the Wonderware® Historian 9.0 and ActiveFactory™ Software 9.2 are the same course. Content overlaps and material is included in this course to cover both aspects.

The course is a 3-day, instructor-led course designed to provide you with a fundamental understanding of the role of the Wonderware® Historian as a plant-wide historian and data provider. The course is also designed to provide the participant with a fundamental understanding of how ActiveFactory™ Software can be used to report and analyze historian data. You will learn how to use the Wonderware Historian, a high-performance real-time and historical database, for SCADA and factory data as a historian and data provider for applications based on InTouch. You will learn how to visualize and analyze data stored in the Wonderware Historian using the trending, analysis and reporting capabilities of ActiveFactory software.

Objective

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 the Wonderware 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

Audience

Plant floor operators and managers, system administrators, system integrators and other individuals who need to use the Historian and ActiveFactory™ Software in their manufacturing control processes.

Prerequisites

The prerequisites for this course are:
- InTouch Basic Course
- Knowledge of Microsoft Windows
- Manufacturing industry experience

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 - ArchestrA 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

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
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