



Course Description: Historian Advanced

The *Historian Advanced Course* is a 3-day, instructor-led course that is designed to provide you with an advanced understanding of the role of the IndustrialSQL Server (InSQL™) software as a plant-wide historian and data provider. The purpose of this course is to give you the skills to leverage the capabilities of the IndustrialSQL Server historian to perform high-volume, high-capacity retrieval of plant information. The course is structured to emulate real-world deployment concerns and solutions, including namespace configuration, query optimization (for enhanced data retrieval performance), and common troubleshooting and database related solutions. You will use ActiveFactory™ client tools throughout the course for IndustrialSQL Server data retrieval and reporting.

OBJECTIVES

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

- Insert, update, retrieve, and display archived and live plant data
- Import and store off-line data (Old Data)
- Configure advanced Event Detectors and Event Actions
- Optimize system components for enhanced performance on the plant floor
- Examine other advanced InSQL functionality within a controlled classroom environment

AUDIENCE

Plant floor operators and managers, system and database administrators, system integrators, and other individuals who need to use the IndustrialSQL Server historian in their manufacturing processes.

PREREQUISITES

The prerequisites for this course are:

- Fundamentals of IndustrialSQL Server™ Historian and ActiveFactory™ Software Course
- InTouch® HMI Fundamentals of Application Development Course or experience with InTouch software
- Manufacturing industry experience



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COURSE OUTLINE

Module 1 – Introduction

- Section 1 – Course Introduction
- Section 2 – System Requirements and Recommendations
- Section 3 – IndustrialSQL Server Historian Review
 - Lab 1 – Optimizing Data Retrieval

Module 2 – The IndustrialSQL Server Namespace

- Section 1 – Namespace Overview
 - Lab 2 – Customizing the Namespace

Module 3 – Versioned Data

- Section 1 – Versioned Data Overview
- Section 2 – Retrieval Scenarios for Versioned Data
 - Lab 3 – Manually Changing Versioned Data

Module 4 – DTS and Linked Servers

- Section 1 – DTS Concepts
- Section 2 – Linked Servers
 - Lab 4 – Building a DTS Export Package
 - Lab 5 – Viewing LIMS Data

Module 5 – Event and Summary System

- Section 1 – Event System Review
- Section 2 – Custom Tables
 - Lab 6 – Creating a Custom Table and Configuring an Event
 - Lab 7 – Configuring Automated Shift Summaries
 - Lab 8 – Using an Event to Trigger an Agent Job