



# HISTORIAN TRAINING

## TRAINING DESCRIPTION

The 4-day Historian Training program combines both the Historian Client and Historian Server courses to provide a comprehensive understanding of the software. The first 2 days focus on the Historian Client, instructor-led class designed to provide a fundamental understanding of the features and functionality of the Historian Client software. The course provides lectures and hands-on labs to supply and reinforce the knowledge necessary to use Historian Client. The Historian Client trending, analysis, and reporting software offers a suite of data analysis and reporting clients that maximize the value of data stored in Historian Server. Historian Client enables individuals at all levels of an organization to easily access plant and process related data through simple point-and-click dialog boxes. While The Historian Server course is a 2-day, instructor-led class designed to provide a fundamental understanding of the features and functionality of Historian for both Application Server and InTouch HMI applications. This course provides lectures and hands-on labs to present and reinforce the knowledge necessary to use Historian for SCADA and factory data. This information includes how to configure, historize, and retrieve historical data; retrieve auto-summary data; implement data replication to a remote historian; and insert, update, and import historical data.

## TRAINING OBJECTIVES

- Use Historian Client Trend to retrieve and represent historical data in graphical and tabular formats.
- Use Historian Client Workbook to retrieve historical data in Microsoft Excel
- Use Historian Client Query to build and execute queries against Historian Server and display results in the Historian Client Query and in Microsoft Excel
- Use Historian Client Report to execute queries using Historian Client Query and represent the results in Microsoft Words
- Start and configure Historian
- Configure and historize Application Server and InTouch HMI data
- Retrieve data with Historian tools
- Retrieve data with SQL queries
- Distinguish between retrieval modes
- Use time domain extensions in SQL queries
- Update, insert, and import historical data
- Use a Tier-2 Historian for replication and summarization
- Backup and restore Historian data

## AUDIENCE & PREREQUISITES

- Plant floor operators and managers
- System administrators
- System integrators



- Individuals who need to historize, analyse, and maintain data from Application Server or from an InTouch HMI application
- Manufacturing industry experience

## TRAINING SCHEDULE

This training course has been developed based on the following daily schedule:

<b>Daily Session</b>	8 hours	Usually from 9:00 AM to 5:00 PM
<b>Lunch</b>	1 hour	12:00 PM to 1:00 PM
<b>Breaks</b>	2 x 20 minutes	10:00 AM and 3:00 PM

Based on the daily schedule above, the topics for this training course are estimated to break as follows:

Day 1	<b>Ice-Breaking</b> <b>Module 1 – Introduction</b> Course Introduction <b>Module 2 – Historian Client Trend</b> Lab 1 – Using Historian Client Trend Basic Functions Lab 2 – Creating Data Logs and Annotations Lab 3 – Configuring Public Groups Lab 4 – Configuring Time Offsets and Target Regions Lab 5 – Using Retrieval Styles and Data Transformations <b>Module 3 – Historian Client Workbook</b> Lab 6 – Using Historian Client Workbook Basic Functions Lab 7 – Using the Tag Analysis Wizard
Day 2	Lab 8 – Applying Criteria to Historical Data Retrieval Lab 9 – Using Excel References with Workbook Lab 10 – Creating an Hourly Average Temperature Report <b>Module 4 – Historian Client Query</b> Lab 11 – Using Historian Client Query Lab 12 – Using Historian Client Query in Workbook <b>Module 5 – Historian Client Report</b> Lab 13 – Using Historian Client Report Lab 14 – Using Wildcard Time Options and Editing a Report
Day 3	<b>Module 6 – Introduction</b> Course Introduction <b>Module 7 – Historian Configuration</b> Lab 1 - Configuring Historian <b>Module 8 – Historian and System Platform</b> Lab 2 – Creating a Galaxy Lab 3 – Historizing a Galaxy <b>Module 9 – Historian and InTouch HMI</b> Lab 4 – Historizing an InTouch HMI Application Lab 5 – Manually Editing and Creating IDAS Tags <b>Module 10 – Data Retrieval</b> Lab 6 – Retrieving Data with Historian Client Web



	Lab 7 – Retrieving Data with Microsoft Excel
Day 4	Lab 8 – Retrieving Data with SQL Queries Lab 9 – Using Retrieval Modes <b>Module 11– Manual Data</b> Lab 10 – Inserting Data Manually Lab 11 – Importing Historical Data <b>Module 12 – Summaries and Data Replication</b> Lab 12 – Summarizing and Replicating Data to a Tier-2 Historian Lab 13 – Querying Replicated Data from Tier-2 Historian <b>Module 13 – Historian Maintenance</b> History Book Maintenance Historian Database Management