

AVEVA InTouch HMI

Target audience

This training is designed for automation engineers, SCADA/HMI developers, system integrators, and plant IT/OT professionals involved in industrial monitoring and control systems. It is also suitable for maintenance engineers and technical leads who configure, deploy, or manage AVEVA InTouch and System Platform environments in corporate or plant operations.

Course Objective

- The tag-based AVEVA InTouch HMI course explains how to create and configure a Stand-alone InTouch application using Industrial Graphics.
- The course provides a fundamental understanding of the basic principles of InTouch HMI visualization software and the steps necessary to develop a Human Machine Interface system for a plant floor or facility.
- You will be guided through setup, layout, best practice concepts, features, and functions of the InTouch HMI software platform.

Course Outcomes

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

- Create a stand-alone InTouch application.
- Build an HMI with Situational Awareness symbols.
- Construct a Key Performance Indicator display.
- Configure OI Server & Establish communications with I/O-aware programs.
- Create, explore, import tags, Test and monitor tags.
- Build displays with pre-built library graphics.
- Build displays with custom graphics.
- Visualize and interact with data.
- Present and manage live and historical alarms.
- Configure and apply security to an application.
- Display real-time data in a trend.
- Backup and restore an application.
- Distribute an application to a production environment.
- View application windows and graphics in a browser.

Couse Outline

The course comprises **40-hours** of theory and labs and is divided into **10** different Modules. Each chapter will be followed by hands-on lab exercises to reinforce learning and gauge understanding of the topics covered.

Table of Contents: -

Module 1 – Introduction

- Course Introduction
- InTouch Software Overview
- System Requirements and Licensing
- InTouch Application Types

Module 2 – Window Layout and Basic Navigation

- WindowMaker Overview
- WindowViewer Overview
- Configure and Test Navigation Using WindowMaker

Module 3 – InTouch Tagname Dictionary

- The Tagname Dictionary
- I/O Configuration
- Tag Viewer
- DBDump and DBLoad
- Other Tag Management Utilities

Module 4 – Situational Awareness Visualisation

- Industrial Graphic and Situational Awareness Visualisation
- Element Styles
- Window Construction Using Symbol Editor
- Custom Properties and Animations in Symbols
- New Section with 2020

Module 5 – InTouch Alarms

- InTouch Tagname Alarm Configuration
- Live Alarms Management
- Historical Alarms Management

Module 6 – Data Logging and Trending

- InTouch History and Real-Time Trending
- Using Historian with InTouch
- Trend Pen

Module 7 – Introduction to InTouch & ArcestrA Symbol QuickScript .NET

- Introduction to InTouch QuickScript
- ArcestrA Symbol QuickScript.NET
- ShowGraphic() and InTouch Windows
- ShowGraphic and Industrial Symbols

Module 8 – Security

- OS Security Implementation
- Lock Down Your Application

Module 9 – Application Distribution & Maintenance

- Network Application Distribution
- Manage Industrial Graphics
- Converting Windows to Industrial Graphics and Frame Windows
- Application Backup and Restore

Module 10 – Web Client

- Web Client