

# AUTOMATION ACADEMY

A u t o m a t i o n   S y s t e m s   T r a i n i n g   S p e c i a l i s t s

## Course Title: Siemens TIA HMI Software Training Course

This Siemens TIA HMI training course has been designed to give Engineers an insight into the configuration and operation of the Siemens HMI software within the TIA portal coupled with Siemens HMI products. The course will guide students through the basic design and configuration of the HMI systems through to the operation and integration into the PLC control system.

Where possible, application specific exercises, actual drawings and plant programs will be used to allow the students to gain the greatest possible benefit from the course.

### Course Objectives:

- ☒ To introduce students to the concepts and operation of Siemens HMI's and TIA HMI programming software.
- ☒ To be able to understand the structure of the HMI project in the TIA HMI programming software.
- ☒ To be able to use the TIA HMI programming software to create and develop a basic project and to be able to modify existing TIA HMI projects.
- ☒ To be able to restore a project backup into the Siemens HMI from a backup copy.

### Course Content:

Understanding Siemens HMI's and their size, properties and software requirements.

First steps using TIA HMI programming software.

Creating a TIA HMI training project to demonstrate application examples.

Basic HMI drawing skills.

HMI tags and their creation.

Configuring the online connection to the HMI.

Creating PLC based tags.

Downloading the project to the HMI.

Obtaining runtime in the TIA HMI software to simulate the HMI.

Developing plant mimics.

Configuration and screen development for project navigation.

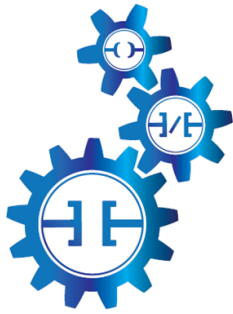
Creating alarms and alarm displays.

Real time trending configuration and screen development.

Historical trending configuration and screen development.

Text list configuration and screen development.

HMI security and allowing access to specific pictures.



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Course Duration: 2 Days

Documentation: Siemens TIA HMI Training Manual.

Equipment per student: Siemens HMI

Siemens S7 controller

Programming laptop

Plant simulator

Web link: [Siemens TIA HMI Software Training Course](#)