

Au2mate Academy

# BASIC INTRODUCTION TO SIEMENS PLC/HMI – SIEMENS TIA PORTAL

**COURSE NO. 12:**  
**BASIC INTRODUCTION TO SIEMENS PLC/HMI – SIEMENS TIA PORTAL**

PROGRAM - SHORT DESCRIPTION · DURATION: 3 DAYS - 08:30-16:00

**Target audience**

The course is targeting technical personnel/service personnel with responsibility for service and maintenance of PLC/HMI systems from Siemens, and who need a quick introduction to the Siemens TIA portal programming/service tools.

**Prerequisites**

Basic knowledge regarding automation technology and equipment.  
 User of Windows based PCs.

**Short description**

Basic introduction to Siemens PLC/HMI equipment and related Siemens TIA portal programming tools. The course will focus on Siemens S7-400 and S7-1500 PLCs and Siemens touch panels.

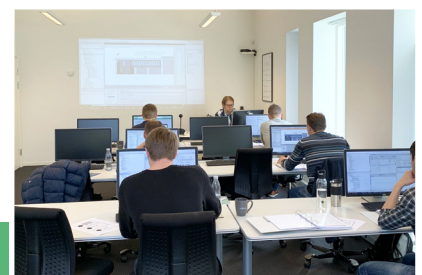
The course will cover topics such as:

- Introduction to Siemens PLC & HMI equipment
- Introduction to Siemens TIA portal
- Introduction to Siemens Step 7 programming for PLCs
- Introduction to Siemens WinCC configuration for HMI panels
- Introduction to addressing of modules/equipment
- Configuration of hardware/connections
- Introduction to Step 7 basic functions
- Introduction to WinCC basic functions
- Step 7 programming examples in LAD & STL
- WinCC (for HMI) configuration examples
- Programming of small PLC & HMI applications
- Download & test of configuration & applications
- Fault finding

**Objectives**

Upon completion of this course the attendant will have obtained:

- Basic understanding of Siemens PLC/HMI equipment and programming tools
- Skills in diagnostics and fault finding in Siemens Step 7 programs
- Skills to download and test minor extensions in Siemens PLC & HMI applications



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