

**SIEMEN S7 1500 LEVEL 2 WITH TIA PORTAL****Siemen S7 1500 Level 2 with TIA Portal**

The course has been designed to further the students knowledge of Siemens S7 1500 and TIA Software programming and fault finding. Before attending this course the student should have already attended a Siemens S7 level 1 course or have a good foundation knowlegde of Siemens S7 systems.

The student will be able to structure and create advanced programs, communicate to drives and use OB's for fault finding.

**Objectives**

To introduce students to the concepts and operation of S7 1500 programmable controllers and TIA Portal Software, including the following areas:

- ✓ Structuring programs and Data.
- ✓ Using and creating FC's, FB's, DB's, System blocks .
- ✓ Programming a Touch Panel.
- ✓ Using OB for fault finding and time intervals.
- ✓ Profinet communications to Variable speed drives and PLC to PLC

**COURSE CONTENT**

- ✓ Review of Hardware configuration
- ✓ Review of Block types, analogues and DB' s and monitoring techniques.
- ✓ Program design, structuring and testing methods
- ✓ Review of Data types
- ✓ Advanced data block structures including UDT's
- ✓ Review and further investigation of STL
- ✓ Jump and accumulator function, including status bit.
- ✓ Advance techniques using of FC and FB blocks for Multi instances, and there operation with data block.
- ✓ Communications interface with the S7 on Profinet to VSD, explaining command signals, setpoint control and status.
- ✓ Profinet PLC to PLC communications.
- ✓ Organisation blocks for error and profibus diagnostics.
- ✓ Diagnostic data, using the diagnostic buffer and using SFC52 to write use messages.
- ✓ HMI TP programming illustrating:
- ✓ Setup communication
- ✓ Screen creation
- ✓ Screen navigation
- ✓ Creating Tags
- ✓ Event and Alarm points and messages
- ✓ Introduction to Ethernet.

**Course Reference**  
S71500TIAL2

**Course Duration**  
5 Days

**Documentation**  
Siemens S7 1500 Level 2  
with TIA Portal Training  
Manual.

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