




AUTOMATION

SIMATIC S7 PLC Programming—Basic Level based on S7-300/400

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Meirc
Training & Consulting



Why Attend

The main aim of this course is to provide the participants with basic knowledge about Siemens PLC Programming, to create or to modify Step 7 PLC programs and to find PLC program faults.

Course Methodology

The course is hands on with great emphasis on the practical aspects of Programmable Logic Controller applications. The course is based around Siemens S7-300 / 400 range of PLCs using SIMATIC Manager.

Course Objectives

By the end of the course, participants will be able to:

The course objectives are to provide the participants with the knowledge and skills to enable them to work with Siemens S7 (300 / 400 Series)

On completion of this course the participant will be able to:

- Identify the components and performance characteristics of the SIMATIC S7-300/400 PLC
- Install a PLC system, including the communication cabling and wiring of I/O.
- Use the various address types to edit, reload, structure and run a program. Document, test, and basically troubleshoot the control system and its program.
- Diagnose and repair simple hardware problems.
- Utilize binary operations, timers, counters, comparators, and arithmetic operations for program modifications.
- Integrate and troubleshoot an HMI and Drive system within the control system.
- Configure and troubleshoot Profibus DP nodes
- Write simple programs and diagnose errors using S7 software package on S7-300/400 PLC's

Target Audience

Electrical and instrumentation technicians and engineers

Target Clients

- Oil & Gas
- Food & Beverage
- Cement
- Chemical Industry
- Mining
- Fertilizers
- Pharmaceutical Factories.
- Water and Waste Water station
- Customers who already have in their plants S7-300 / 400

Note

The ability to use a MS Windows PC, keyboard and mouse to include opening and closing programs, locating files, copy and paste objects /data (text, etc). Drag and drop files, objects/data (text, etc). Use of menus and multi-menus, manipulation of windows within a multi-window environment. Use of MS Windows Help.

This course involves practical and hands-on training on real PLC stands.

Course Outline

- Introduction to the S7 family of controllers.
 - CPU S7-300 / 400 Portfolio
 - ET200 Families
 - IO modules



- Function Modules

- Installation and maintenance of a PLC
- The SIMATIC Manager software package
- Hardware configuration
- Hardware commissioning
- Block architecture and Program Editors
- Symbols
- Binary Operations
- Digital Operations
- Introduction to HMI and Profibus DP
- Rewiring
- Introduction to Drive Systems
- Program documenting, saving and archiving
- Basic Troubleshooting
- Each of the above topic areas will be tested through practical exercises using simulator / system model.
- Open Discussion...



Location & Date

24 - 28 Nov, 2019	English	Dubai	Meirc Offices Dubai
9 - 13 Feb, 2020	English	Dubai	To be assigned
8 - 12 Nov, 2020	English	Dubai	To be assigned

Fees: US\$ (including coffee breaks and a buffet lunch daily)

Per participant - 2019	US\$ 3800
Per participant - 2020	US\$ 3900

Fees + VAT as applicable

UAE Tax Registration Number 100239834300003



Courses in Hands-on Automation and Process Control

Dates	Course Name	Language	Location	Fees
8 - 12 Sep, 2019	SIMATIC S7 PLC Programming—Advanced Level based on S7-300/ 400	English	Dubai	US\$ 3900
15 - 19 Sep, 2019	Industrial Profibus & Profinet Courses	English	Dubai	US\$ 3900
22 - 26 Sep, 2019	Human Machine Interface based on SIMATIC WinCC TIA	English	Dubai	US\$ 3900
6 - 10 Oct, 2019	Human Machine Interface based on SIMATIC WinCC flexible	English	Dubai	US\$ 3900
13 - 17 Oct, 2019	SCADA Systems based on SIMATIC WinCC Professional	English	Dubai	US\$ 3900
20 - 24 Oct, 2019	Industrial Weighing Course	English	Dubai	US\$ 3900
27 - 31 Oct, 2019	SIMATIC S7 PLC Programming—Basic Level based on S7-1500	English	Dubai	US\$ 3900
17 - 21 Nov, 2019	SIMATIC S7 PLC Programming—Advanced Level based on S7-1500	English	Dubai	US\$ 3900
19 - 23 Jan, 2020	SIMATIC S7 PLC Programming—Basic Level based on S7-1500	English	Dubai	US\$ 3900
26 - 30 Jan, 2020	SIMATIC S7 PLC Programming—Advanced Level based on S7-1500	English	Dubai	US\$ 3900
2 - 6 Feb, 2020	Human Machine Interface based on SIMATIC WinCC TIA	English	Dubai	US\$ 3900
16 - 20 Feb, 2020	SIMATIC S7 PLC Programming—Advanced Level based on S7-300/ 400	English	Dubai	US\$ 3900
23 - 27 Feb, 2020	Human Machine Interface based on SIMATIC WinCC flexible	English	Dubai	US\$ 3900
1 - 5 Mar, 2020	SCADA Systems based on SIMATIC WinCC Professional	English	Dubai	US\$ 3900
22 - 26 Mar, 2020	Designing and commissioning Variable Speed Drives	English	Dubai	US\$ 3900
7 - 11 Jun, 2020	Industrial Profibus & Profinet Courses	English	Dubai	US\$ 3900
5 - 9 Jul, 2020	Designing and commissioning Variable Speed Drives	English	Dubai	US\$ 3900
9 - 13 Aug, 2020	Industrial Weighing Course	English	Dubai	US\$ 3900
6 - 10 Sep, 2020	SIMATIC S7 PLC Programming—Basic Level based on S7-1500	English	Dubai	US\$ 3900
13 - 17 Sep, 2020	SIMATIC S7 PLC Programming—Advanced Level based on S7-1500	English	Dubai	US\$ 3900
4 - 8 Oct, 2020	Human Machine Interface based on SIMATIC WinCC TIA	English	Dubai	US\$ 3900
15 - 19 Nov, 2020	SIMATIC S7 PLC Programming—Advanced Level based on S7-300/ 400	English	Dubai	US\$ 3900



Courses in Hands-on Automation and Process Control

Dates	Course Name	Language	Location	Fees
22 - 25 Nov, 2020	Human Machine Interface based on SIMATIC WinCC flexible	English	Dubai	US\$ 3900



Meirc Timeline

