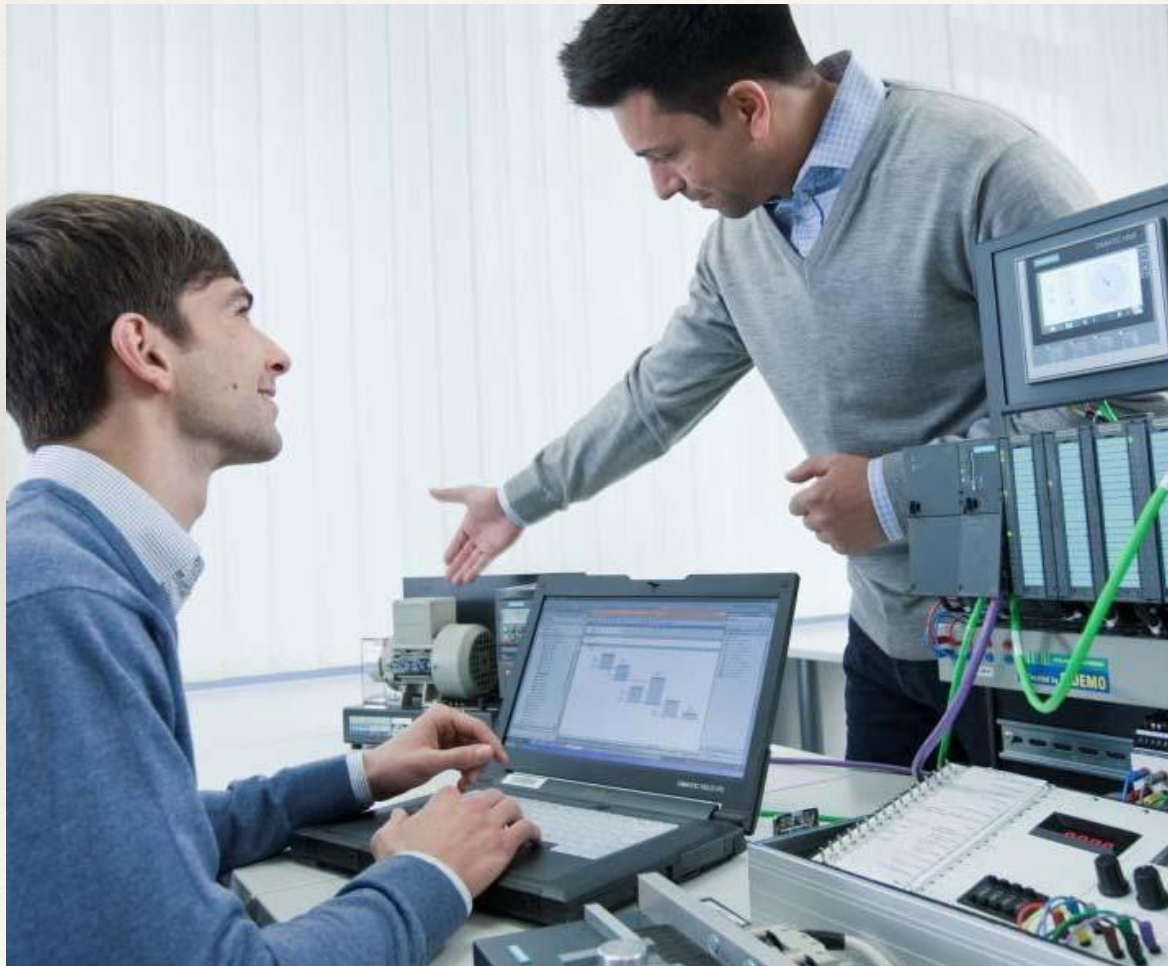# SIEMENS

AUTHORIZED TRAINING CENTER

Authorized Training Center

SIEMENS

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ST-SERV1 – SERVICE LEVEL 1

Course Objectives

Upon completion of this course, the participant shall be able to:

- Identify and maintain the components of a typical automation system.

- Understand the basic steps in hardware assembly, cabling, wiring and testing.

- Establish communications with the PLC with multiple technologies.

- Retrieve, Archive and Download programs.

- Use the hardware configuration editor to inspect and troubleshoot hardware problems.

- Use SIMATIC Manager tools for basic program administration tasks.

- Establish connections to HMI.

- Follow program power/logic flow and interpret/modify basic program elements.

Course Requirement

This course is designed for industry "first responders" to operations controlled with Siemens STEP 7 automated control systems. Participants not requiring programming skills, such as maintenance technicians, electricians, supervisors and others, who need an understanding of their Siemens control system to maximize line uptime, should attend this course. This course also makes a great platform for those new to automation systems and industrial electronics.

Course Brief

This course provides Participants with a solid base of STEP 7 PLC tools and skills necessary for successful system diagnostics and repair. This course is ideal for environments with high uptime requirements and stable control system programs. Fully functional application programs are used as a baseline for the participant to understand key process flow information, diagnostics tools and repair techniques. Build skills and reduce downtime with this focused automation system troubleshooting course.
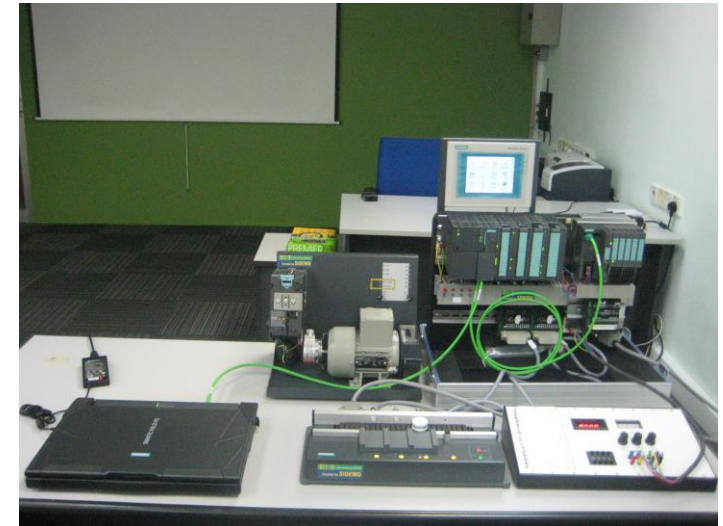
Certification From SIEMENS.

HRDF Claimable!!

Course Fees RM5,500.00

Training Schedule YEAR 2022

MARCH	: 7-11
JUNE	: 13-17
SEPTEMBER	: 5-9

Day Wise Schedule

Day 1

- SIMATIC S7 System Family Overview
- Training Units and Addressing
- Practical on The Above
- Installation/Maintenance of PLC
- Practical on The Above

Day 2

- SIMATIC Manager
- Symbols
- Hardware Configuration
- Practical on The Above

Day 3

- Hardware Commissioning
- Block Architecture and Block Editor
- Binary Operations
- Practical on The Above

Day 4

- Digital Operations
- Introduction to HMI
- Rewiring a user program
- Practical on The Above

Day 5

- Documentation
- Practical on The Above
- Feedback & Valedictory Session

ST-SERV2 - SERVICE LEVEL 2

Course Objectives

Upon completion of this course, the participant shall be able to:

- Detecting and correcting basic hardware faults.

- Application of block types

- Software Troubleshooting

- Principles of analog value processing

- Detecting and correcting software errors.

- Connecting distribute IO with PROFIBUS DP.

- Modifying Touch Panel configuration.

- Sequential Control System.

Course Requirement

This course is designed for industry first responders to operations controlled with Siemens STEP 7 automated control systems. Participants not requiring programming skills, such as, maintenance, technicians, electricians, supervisors, and others, who need an understanding of their Siemens control system to maximize line uptime, should attend this course.

This course also makes a great platform for those new to automation systems and industrial electronics. **PLEASE NOTE:** If PLC programming as a job skill is required, one may consider theS7 Programming L1.

Course Brief

The second component of the SIMATIC Service course is linked to the first basic course with regards to STEP7, human machine interfacing, drive components, and PROFIBUS DP, and it expands this in the direction of troubleshooting. This course focuses on fault correction, software troubleshooting and program adaptations.

This course format consists of instruction and hands- on exercises. The course uses a conveyor

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ST-SERV2

5 Days

Training Schedule YEAR 2022

APRIL	: 25 - 29
JULY	: 4 - 8
OCTOBER	: 3 - 7

Certification From SIEMENS

HRDF Claimable!!

Course Fees
RM5,500.00

Day wise Schedule

Day 1

- SIMATIC S7 System Family Overview
- Training Units and Addressing
- Practical on The Above
- Installation/ Maintenance of PLC
- Practical on The Above

Day 2

- SIMATIC Manager
- Symbols
- Hardware Configuration
- Practical on The Above

Day 3

- Hardware Commissioning
- Block Architecture and Block Editor
- Binary Operations
- Practical on The Above

Day 4

- Digital Operations
- Introduction to HMI
- Rewiring a user program
- Practical on The Above

Day 5

- Documentation
- Practical on The Above
- Feedback & Valedictory Session

ST-PRO1 - SIMATIC PROGRAMMING LEVEL 1

Course Objectives

Upon completion of this course, the participant shall be able to:

- Complete a system hardware configuration.

- Build, document, test and troubleshoot a structured STEP 7 program.

- Program using multiple address types.

- Use symbolic addressing.

- Use core application instructions, functions and blocks.

- Program using processed Analog Values.

- Generate Data Blocks.

- Establish connection to HMI.

Course Requirement

This course is for SIMATIC S7 PLC users who are involved with developing or sustaining automation systems and their application programs. If you are very new to SIEMENS PLC, it is advisable to start with SIEMENS SERVICE MAINTENANCE LEVEL 1 (ST-SERV1).

Course Brief

This course will built skills with Siemens STEP 7 engineering software in project management, program design and application sustaining. This is an aggressively paced curriculum covering key programming tools, structures, libraries and editors.

This course takes a systems approach addressing the S7 PLCs, plus basic connectivity and functionality of the HMI,Drive System and PROFIBUS/ PROFINET based remote I/O. Throughout this course participants will built or modify a STEP 7 project using proper program structuring, documentation and test tools. Various instruction, memory types, blocks and functions will be introduced to provide the participant with solid concepts of structured programming. This course format consists of instruction and hands-on exercises. The course uses a conveyor model for demonstration and exercises.

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Training for Industry

ST-PRO1

5 Days

Certification From SIEMENS.

HRDF Claimable!!

Course Fees
RM5,500.00

Training Schedule YEAR 2022

MARCH	: 28-01
AUGUST	: 01-05
NOVEMBER	: 21-25

Day wise Schedule

Day 1

- SIMATIC S7 System Family Overview.
- Training Units & SIMATIC Manager
- Symbols & Hardware Configuration
- Step7 Blocks
- Practical on the above

Day 2

- Binary Operations
- Practical on The Above
- Digital Operations
- Practical on The Above

Day 3.

- Introduction to Profibus DP & HMI
- Data Blocks
- Data Blocks (cont)
- Practical on The Above

Day 4.

- Function and Function Blocks
- Organization Blocks
- Analog Value Processing

Day 5.

- Troubleshooting
- Documentation
- Feedback & Valedictory Session

ST-PRO2 - SIMATIC PROGRAMMING LEVEL 2

Course Objectives

Upon completion of this course, the participant shall be able to:

- Understand the concepts of structured program creation.

- Leverage the power of Block and Function libraries.

- Use STL for advanced program development

- Incorporate System Functions (SFC) in a program

- Integrate an HMI and Drive system with the PLC

- Use Instance and Multi-Insane data Blocks

- Use interrupt-driven and error processing program execution blocks.

- Leverage STEP7 advanced diagnostics

Course Requirement

This course is for SIMATIC S7 PLC users with basic engineering experience in the design and sustaining of SIMATIC automatically systems and their application programs.
PLEASE NOTE: Attending ST-PRO1 or ST-SERV2 course is a prerequisite for this course.

Course Brief

This course is the last in a two part series which builds skills with Siemens STEP7 engineering software. Advanced programming tools, techniques, functions, data management and diagnostic are the focus of this course. This course takes a systems approach addressing the S7 PLCs, plus basic connectivity and functionality of an HMI.

This programming course is designed to help the participant understand the techniques and benefits of structured programming. Participants will also learn to leverage the efficiencies and power of Siemens program editors (LAD, STL, FBD) block and function libraries. Managing and manipulating data is a key focus in this course.

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ST-PRO2

5 Days

Certification From SIEMENS.

HRDF Claimable!!

Course Fees
RM5,500.00

Training Schedule YEAR 2022

| MAY | : 16 - 20 |
| SEPTEMBER | : 19 - 23 |

Day wise Schedule

Day 1

- Training Units and Addressing
- Hardware & Software Commissioning
- Practical on The Above
- Methods for Program Design
- Practical on The Above

Day 2

- Analog Value Processing
- Jump and Accumulators Functions
- Practical on The Above
- Functions & Function Blocks

Day 3

- Indirect Addressing
- Practical on The Above
- System Blocks
- Practical on The Above

Day 4

- Data Exchange with MM4
- Organization Blocks
- Blocks
- Practical on The Move

Day 5

- Analyzing Diagnostics Data
- Tags and Alarm in HMI
- Feedback & Valedictory