AS AUTOMATION SERVICES
NO 9-01, Jalan Pertama 5,
Pusat Perdagangan Danga Utama,
81300 Johor Bahru.
Tel No: +075596470 Fax No: +075500351

HRDF Registered AS Automation Systems Training Centre PLT.

Siemens V5.5 – Basic (2 days) PLC Programming Training Course & Pricing Outline.

1)Training Course Objectives:

This training program for Siemens Simatic Manager V5.5 Basic PLC Programming course provides a basic understanding of Siemens S7-300/400 PLCs programming capabilities. Control strategies and programming will be reviewed. Data Movement, Floating Point Math, Shift, Compare, Distribute, Collection, Transfer, and other instructions will be covered.

2)Training Course Content:

PROGRAMMABLE LOGIC CONTROLLERS (PLC).
Siemens S7-300/400

Course Contents Day1

LESSON 1 – Introduction and Overview
- Course Objectives.
- Course Prerequisites.
- Computer Numbering Systems.

LESSON 2 – Number Systems
- Binary Numbers.
- Hexadecimal Numbers.
- Octal Numbers.
- Binary Coded Decimal.
- Integer (16/32 Bit).
- Decimal (16/32 Bit).

LESSON 3 – Hardware Review
- Hardware Components.
- Inputs and Addressing.
- Outputs and Addressing.
- Power Supplies.
- Memory Types.

LESSON 4 – Programming Equipment
- Programming Software.
- Simatic Manager V5.5 overview.
- File Format.
- Hardware Connection.
- Communication (MPI; Profibus; Profinet).

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LESSON 5 – Basic Instructions
- Symbols …
- Ladder Logic.
- STL (Statement List). Common Instructions.
- FBD

LESSON 6– Develop and Edit Programs
- Launching Simatic Manager.
- Creating a New Project.
- Editing the Ladder
- Exercise – *Contacts and Coils.* Program Transfer.
- Online Editing.
- Monitor the Program Operation.
- Forcing Bits and Changing Registers.

Day2

LESSON 7 – Programming Functions with Projects
- Timers, Counters Math functions, MOV etc. Program Examples and programming functions.
- Indirect Addressing.
- Best Practices in Programming (GPP)
- Monitor the Program Operation. Forcing Bits and Changing Registers.
- Troubleshooting Methodology.
- Additional Timer Commands.
- Exercise – *Timers, Counters,*
- Exercise – *Conveyors.*

3)Training Course Aims:
Upon completion of this course, the students will be able to:
- Construct, test and run PLC programs using instructions.
- Utilize advanced trouble shooting tools online.
- Download, Upload, Save and copy programs.
- Formulate a control strategy for creating PLC programs.
- Fully document a PLC program.
- Utilize advanced troubleshooting tools.

4)Durations:
Duration is 2 Days

5)Recommended Audience:
Electricians, Technicians, Engineers, Maintenance Personnel, Control Engineers, Individuals who need to be able to understand the advanced capabilities of Siemens S7-300/400 PLCs.

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6)<u>Prerequisites:</u>

- Basic computer skills are required.
- Basic Electricity.

7)<u>Equipment:</u>

- PLC S7-300.
- Training Laptop and Simatic Manager Installed for 2 Person Share.

8)<u>Trainer's Introduction:</u>

Mr. Sunderasen (TSoon) has more than 25 years of industry experience in PLC and HMI programming as a Project Engineer in Singapore. Trained in Australia as an Electrical and Instrument Engineer, he then got his formal PLC and Robotics Training from Ngee Ann Poly Singapore. Mr.TSoon has worked in an OEM company for machine fabrication as a programmer and has commissioned machines in Germany, Thailand, India, China, Philippines and Malaysia. Throughout his years of industry experience, he has undergone specialized training and massive exposure towards different PLC systems, i.e. Siemens (Siemens Singapore), Allen Bradley (Rockwell Singapore), Omron (Precision Singapore), Adept Robot (Adept Singapore), and GE Fanuc (TDS Singapore). He has also vast experience in Building Management System, integrating HVAC, Security, Fire Fighting System, Electrical and Utilities into one centralized monitoring station.

9) <u>Pricing:</u>

Basic, 2 Days Only for Per Pax: **RM 1700/day.**(Non claimable under HRDF depends on company)
Registration can be done by direct call through **Watsapp: +60163329691 (MR.TSoon)** date confirmation will be done through Email.

*Price may vary according to Market Condition.