

Workshop on

"SIEMENS S400 Programing and Troubleshooting" 4-Days Program

About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

Trainer's Profile

Dr. Salama is our foreign freelance Trainer. He has done his PhD & Masters in Automatic Control Systems and did his Bachelors in Engineering in Electrical power & Machines. He is also an International EX Certified from Compex UK. Currently he is associated with Rasheid Petroleum-Egypt as their Sr. Control Systems Engineer. He has also worked with Rockwell Automation - Allen Bradley, Schneider Electric, Schumberger and Bureau Veritas.

He is a highly skilled in Automatic Controls like:

SCADA & HMI: □ SCADA (Vijeoc citect, , WINCC, Intouch,Rsview32, PCS7, Factory Talk, Wonderware, and Cimplicity).

□ HMI (Panel builder, XBT, VIJE0 DESIGNER, Factory Talk, & Wincc flex).

□ Data Acquisition System (National Instrumental Card)

PLCs : Schneider (Twido, M340, Premium &Quantum)----- Allen Bradley (micro logix , SLC, Compact logix & Control logix), Siemens (S7-200.S7-300, S7-400H, PCS7, 1200 &1500), GE Fanuc (Series 90-30) , GE gas turbine controller Mark VIE, YOKogawa ESD system Prosafe) , Process Control Using PID (Foxboro).

He has conducted different training sessions in the industries in Dubai, Abu Dhabi and Egypt i.e.

□ Siemens PLC S400

□ Allen Bradley PLC

□ PLC's & SCADA systems for both Siemens (S300,Wincc v4.0) & Allen Bradley(CLX L73, Factorytalk 8.2)

□ Allen Bradley PLC, CLX 5000, and communication

Training Objective:

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

- Be familiar with ways of using different block types (FC, FB, OB, and DB)
- Become familiar with the principles of analogue value processing
- Eliminate software errors that lead to a CPU stop
- Save and document program changes that have been made
- Use the data block access functions
- Access and use the processed analog values

Training Content:

DAY ONE:

- Description of SIMATIC S5 Range
- Introduction to Step5
- Hardware and software overview
- Create a new program using Step5 in simple way
- Addressing and process image
- Logic operation
- The SIMATIC S7 System Family
- The SIMATIC Manager
- Symbols

DAY TWO:

- Binary Operations
- Analog representation
- Functions and Function Blocks
- Working with Ladder Logic.
- Introduction to Siemens PLC400 and PLC history.
- PLC types and vendors.
- PLC Siemens S7-400 hardware components.
- Power supply modules specs and wiring.
- CPU modules specs and installation.
- Digital modules types and wiring.
- Binary and digital operations

DAY THREE:

- Analog modules types.
- Introduction to communication modules.
- Basic components of Siemens S7 software (programming & configuration environment)
- Hardware configuration and addressing.
- PLC programming basics.
- Ladder programming (logic instructions).

DAY FOUR:

- Timers, Counters, Arithmetic Operations.
- Symbols in PLC program.
- Integrating FCs and FBs
- DB data blocks type and create a function blocks.
- PLC application organization.
- Using simulator.
- Download and debug applications.
- Dealing with data blocks and local variables.
- Tracing a Siemens S7 PLC program.
- Logic instructions complete application example.
- Arithmetic instructions complete application example.
- Applications & link between PLC and SCADA



Contact Us

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