Workshop on

"SIEMENS S5"

Complete Program
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, VIJEO 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:

• Systematically use the current Siemens programmers as tools for program generation, documentation and troubleshooting

• Know performance characteristics, component parts and principle of operation of a SIMATIC S5 programmable controllers

• Fulfill simple logic control tasks, e.g. write programs, start up the PLC and remedy errors

• Master and use the basic operations of the STEP 5 programming language

• Know the different starting characteristics of SIMATIC S5 programmable controllers after a stop status

• Be familiar with typical applications and be able to use them in practice

Training Content:

Day One:
  • Description of SIMATIC S5 range
  • Introduction to step5
  • Hardware and software overview

• Representation of STEP5 operations in the form of control system ladder diagram (LAD), or statement list (STL).

Day Two:
  • Logic operations, result of the logic operation,
  • memory functions,
  • Binary Operations
  • create a new project
  • counter functions,
  • Case studies

Day Three:
  • comparison functions,
  • timer functions,
  • arithmetic operation
  • PG functions for program documentation
  • Absolute and symbolic addressing
  • Case studies

Day Four:
  • Analog modules types.
  • PG functions for tests, diagnostics and troubleshooting
  • Action in case of faults in the RUN status and faults leading to the stop status
  • Starting characteristics, organization blocks for cold restart and warm restart
  • Configuration, addressing facilities and performance characteristics of the CPU's
  • Programming of program blocks, function blocks, organization blocks and data blocks and linking with the program structure.

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