

شرکت تکنولوژی الکترونیک و سیستم های کنترل – کنترونیک  
(بخش آموزش)



نام دوره: PLC I S7

مدت: ۲۵ ساعت

پیش نیاز: Windows و PLC I ( S5 )

- SIMATIC S7 PLC Functionalities
  - The instruction set of STEP 7 .
  - Principles of structured programming in STEP 7.
  - Administering , reading and interpreting a simple program .
  - Functions, principles , design, entry and testing .
  - Parameters , functions and tools .
  - Application of symbolic addressing.
  - Structure of the programming standard IEC 1131 in relation with STEP 7.
  - CPU configuration , setting parameters and application of several I/O card using the Step 7 software .
  - Using analogue cards and processing of analogue signals .
  - Arithmetical instructions .
- Conversion shift and jump instructions -

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**نام دوره: PLC II (S7)**

**مدت : ۲۵ ساعت**

**پیشنیاز: PLC I (S7)**

- Programming Simulators
  - (Tank, Reaction vessel, Embossing machine, Packaging line, ...)
- Testing program using single step & breakpoint modes.
- Introduction to MPI network.
  - Configuration & connection PLCs & PG via MPI network
- Working with S7-Graph Function Block
  - Programming the structure of sequencer
  - Programming Actions & Conditions
  - Assign parameters & calling the S7-Graph
  - Monitoring & testing the sequential control system
- Working with CFC(Continuous Function Chart)
  - creating CFC chart
  - Blocks in the CFC chart & Adapting Runtime property
  - Set the parameters for blocks & interconnect items
  - Compile the CFC charts, Downloading & Testing the CFC program
- Working with S7-SCL (Structured Control Language)
  - Creating project
  - SCL Program structure
  - Declaration local variable, parameters & Constants
  - Expressions, operations, Addresses & statements