

System Training

SILworX Engineer

Aim:

This training course provides the participant with all knowledge which is necessary for a programmer as a good basis for independent programming and operation of a HIMA-PES of system family HIMax.

Prerequisites:

Basic knowledge of electrical and digital functions, knowledge of personal computer (Windows handling)

Training course contents:

- Installation of SILworX
- Norm IEC 61131-3, description of functions and function blocks types of data and variables
- Configuration, libraries, resource types
- Structure and concept of SILworX
- System overview and design of the HIMA-PES HIMax
- Power supply and voltage distribution
- Functions of SB-, central, I/O modules and Remote I/O modules
- Concept of SB-Bus, Remote-I/O-Bus and Fieldbus
- HIMax rack concept and options
- Implementation of I/O modules, free and fixed positions, connection of variables to I/O modules, parameterisation
- Creation of Function blocks and use
- Concept of Global Variables and options
- Programming exercises by examples
- Paste and copy of objects
- Archiving and restoring of projects
- Safety functions and fault reactions
- Notes for the operation of a safety-related PES
- Offline-test, code generation, code comparison
- Loading and starting of the HIMA-PES
- Online-Test, forcing of I/O circuits
- Diagnostic display, fault messages and explanation
- Exchange of modules during operations
- Data communication Peer-to-Peer, SafeEthernet
- Layout and compiling of documentation print-out

Duration: 4 days

