

Siemens Mechatronic Systems Certification Program (SMSCP) Instructor Certification: Level 1 (SMSCP-L1)

Objectives

This course covers the application of Systems Approach to the content topics of the four Level 1 courses: Electrical Components; Mechanical Components and Electrical Drives; Electro-Pneumatic and Hydraulic Control Circuits; Digital Fundamentals and PLCs

This Instructor Certification is based on a Train-the-Trainer model: during this course you will apply the didactic teaching methods from the SAPW course to four courses that you can integrate and teach to students at your educational institution or employees at a training center.

Target Group

Teachers
Engineering or Engineering Technology Faculty or Professors
Engineers
Maintenance and Training Managers
Technical Instructors for non-educational institutions

Content

System Approach paradigm and course-specific didactic training in Electrical Components; Mechanical Components and Electrical Drives; Electro-Pneumatic and Hydraulic Control Circuits; Digital Fundamentals and PLCs
Overview of job profile for Level 1 (Assistant, Intelligent Machine Operator)
Review course syllabi
Hands-on exercises with mechatronic systems, modules, and sub-systems
Hardware fault implementation and troubleshooting
Sample question review for Siemens student examination
Test question development, using Systems Approach
Troubleshooting strategies for systems, using the Diagnostic Kit
Exposure to additional simulation tools
Hands-on tasks with mechatronic systems
Developing model systems for adaptive expertise
Role of factory tours in study programs
Sample lessons for troubleshooting
Creation of sample lessons utilizing the Systems Approach
Development of strategies for knowledge transfer from one system to another
Implementation workshop for implementation of SMSCP locally

Prerequisites

Teaching or industry background in Mechatronics or Electrical or Mechanical Engineering.
Completion of Systems Approach Paradigm Week (SAPW) Instructor Certification course

Note

In this course you will work with SIMATIC STEP7.
After successfully completing this course, participants will be certified as a Siemens Mechatronic Systems Certified Instructor for Level I.

Type

Face-to-face training

Duration

5 days

Language

en