

WinCC Flexible with HMI Lite (US-S7TLWM1A)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4.5 Days
3 CEUs

Target Group

- Maintenance
- Engineer
- Programmer

Short Description

This course is for users who develop, install or maintain automation systems and their application programs when using the Siemens HMI Lite automation concept. The first three days of this course covers WinCC Flexible for systems using the SIMATIC Operator Panels. The remaining course time covers the HMI Lite automation concept for SINUMERIK systems.

HMI Lite is a concept, developed by Siemens AG, aimed at the automation of the production and assembly of automobile engines, axles, and transmissions. Though developed for the Automotive Industry, the HMI Lite concept is adaptable to any automation solution. The Siemens' SIMATIC®, SINUMERIK®, and SINAMICS® product lines are the basis of this concept. When HMI Lite is selected as the automation solution, the Siemens staff develops the desired automation solution, including the communications, software, engineering, training, spare parts and service, tailored to the respective production areas and to the specific project requirements.

Objectives

- Design graphic screens and tools
- Configure internal and external tags
- Define & administer user security
- Set and test the Alarms and Messages
- Configure, archive and display trends
- Understand the HMI Lite concept as it applies to the user's respective production area
- Understand the HMI Lite HMI Lite SIMATIC S7 program structure including the logic and data blocks used, symbols, and project documentation
- Be able to download a HMI Lite Project
- Be able to CALL and format a standard HMI Lite block
- Become familiar with the HMICE PROFINET diagnostic screen displays
- Be able to create an Operator Prompt Message and the logic code to activate the Message
- Be able to create a Fault Message and the logic code to activate the Message
- Be able to create the logic code to activate a machine's manual movement (jog conveyor) using the HMI Manual Operation Screens
- Be able to use the HMI Lite Counter Block to count parts
- Be able to modify HMI Lite CE Screens

Content

- WinCC Flexible System Overview
- The Project
- Basic Graphics Design
- Advanced Graphics Design
- The Message System
- User Management
- Historical Data
- HMI Lite General Information
- HMI Lite Commissioning
- HMI Lite Global Settings and Functionality
- HMI Lite Manual Operations
- HMI Lite "Production Data" Screens
- HMI Lite Diagnostics
- HMI Lite Hardware Diagnostics
- HMI Lite System Screens

Mandatory Prerequisites

[S7 Programming 1: US-S7TIAP1C](#)

OR

[S7 Automation Maintenance 1: US-S7300S1C](#) AND [S7 Automation Maintenance 2: US-S7300S2C](#)

OR

[S7 Programming 1: US-S7TIAP1C](#)

Language

English

Course descriptions are Siemens Intellectual Property and copyright protected. Do not modify without written permission from SITRAIN US. ©2023 Siemens Industry, Inc.