goengineer

TRAINING AGENDA

SOLIDWORKS Electrical Schematic

OVERVIEW

CLASSROOM LENGTH: 3 days / **INSTRUCTOR-LED ONLINE LENGTH:** 6 days

PREREQUISITES: Mechanical design experience; completion of SOLIDWORKS Essentials or similar experience.

DESCRIPTION: This SOLIDWORKS Schematic Training Course teaches you how to use the SOLIDWORKS Electrical Schematic software.

LESSON 1:
PROJECT TEMPLATES

- Create a Project
- Understand Project Configurations
- Save Project as a Template

LESSON 2:
MODIFYING PROJECT TEMPLATES

- Create Project Macros
- Update Existing Template
- Create an Environment Archive

LESSON 3:
DRAWING TYPES

- Introduce Schematic, Mixed Scheme, and Line Diagram Drawing Types
- Insert Symbols
- Associate Symbols to Components

LESSON 4:
SYMBOLS AND COMPONENTS

- Understand Components
- Change Component Permanency
- Insert a Symbol from a Component

LESSON 5:
MANUFACTURER PARTS

- Understand Manufacturer Parts
- Electrical Content Portal
- Circuit Association
- Represent Circuits as Symbols

LESSON 6:
WIRES AND EQUIPOTENTIALS

- Create Wire Styles
- Wire Numbering Formulas
- Number Project Wires

LESSON 7:
CABELING

- Include Cables in Projects
- Create Cable Reference
- Document Cables in a Drawing

LESSON 8:
SYMBOL CREATION

- Understand Symbol Types
- Create Symbol
- Overview Symbol Attributes and Circuits

LESSON 9:
MACROS

- Understand Design Reuse
- Define and Use Macros

LESSON 10:
CROSS REFERENCING

- Create and Modify Cross Reference symbols
- Navigate Between Associated Symbols
- Resolve Cross Reference Errors

goengineer

TRAINING AGENDA

SOLIDWORKS Electrical Schematic

LESSON 11:
MANAGING ORIGIN-DESTINATION ARROWS

- Replace Wire Styles in a Schematic
- Modify Wire Marks
- Connect Wires Across Pages

LESSON 12:
DDYNAMIC PROGRAMMABLE LOGIC CONTROL

- Create PLC Component
- Insert a PLC Symbol
- Modify PLC Configurations

LESSON 13:
AUTOMATED PROGRAMMABLE LOGIC CONTROL

- Manage PLC Inputs and Outputs
- Add External File Data to I/Os

LESSON 14:
CONNECTORS

- Understand Dynamic Connectors
- Create Connector Configuration
- Insert Connector Symbols

LESSON 15:
2D CABINET LAYOUTS

- Manage Locations for Cabinet Layouts
- Insert a Layout Drawing
- Insert Cabinets, Ducts, and Rails
- Represent Electrical Components

LESSON 16:
DESIGN RULE CHECKS

- Understand Design Rule Checks
- Resolve Common Design Errors

LESSON 17:
REPORTS

- Understand Reporting
- Modify Existing Reports