SOLIDWORKS PCB Essentials

OVERVIEW

CLASSROOM LENGTH: 3 days / **INSTRUCTOR-LED ONLINE LENGTH:** 5 days

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

DESCRIPTION: SOLIDWORKS PCB Essentials Training Course teaches you how to use the SOLIDWORKS PCB design software.

LESSON 1:
SOLIDWORKS PCB BASICS AND USER INTERFACE

- Introduction to Mechanical and Electrical Collaboration
- User Interface

LESSON 2:
WORKING WITH PCB DESIGN PROJECTS

- PCB Project Creation
- Adding Drawings
- Project Libraries
- Export Design

LESSON 3:
SCHEMATIC TEMPLATES

- Create Schematic Template
- Add Parameters
- Attach Images

LESSON 4:
PREFERENCES

- Overview Preferences
- Optimize Wires
- Cross-overs

LESSON 5:
CREATING SCHEMATIC SYMBOLS

- Create New Symbols
- Symbol Wizard

LESSON 6:
POPULATING SCHEMATICS

- Placing Symbols
- Library Components
- Power Ports
- Supplier Links

LESSON 7:
SCHEMATIC CONNECTIONS

- Wiring Placement Modes
- Wire Connections
- Buses
- Net Labels

LESSON 8:
USING SCHEMATIC ANNOTATIONS

- Configure Annotations
- Review Change Lists
- Execute Engineer Change Orders

LESSON 9:
COMPILING AND VERIFICATION

- Set Design Violations
- Resolving Compiling Errors

LESSON 10:
SOLIDWORKS COLLABORATION

- Create Project In SOLIDWORKS
- Collaboration between ECAD and MCAD

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LESSON 11:
CONFIGURING LAYERS AND PCB STACKS
- PCB Layout Configuration
- Layer Stacks
- Drill Pairs
- Board Thickness

LESSON 12:
DESIGNING RIGID-FLEX PCBS
- Define Rigid and Flex Board Regions
- Bend Lines and Angles
- Edit Board Geometry in SOLIDWORKS CAD

LESSON 13:
OUTLINES, CUTOUTS AND KEEPOUTS
- Modify Board Shape
- Create Cutouts
- Apply Keepouts

LESSON 14:
ORIGINS AND GRIDS
- Set Relative Origin
- Cartesian Grids
- Polar Grids

LESSON 15:
TRANSFERRING DESIGN DATA
- Link Footprints to Symbols
- Push Changes

LESSON 16:
CREATING FOOTPRINTS
- Create New Footprint
- IPC Footprint Wizard

LESSON 17:
PLACING FOOTPRINTS
- Position Footprints
- Move Components in SOLIDWORKS

LESSON 18:
DESIGN RULE CHECKS
- Create and Prioritize Rules
- Modify Clearance and Routing Rules

LESSON 19:
ROUTING
- Routing Preferences
- Interactive Routing
- Create Vias
- Multi Trace Routing
- Auto-Routing
- Copper Collaboration

LESSON 20:
POLYGON POURS
- Set Polygon Pour Parameters
- Define Pour Shape

LESSON 21:
OBJECT INSPECTOR
- Find Similar Objects
- Modify Multiple Entities

LESSON 22:
OUTPUTTING DATA
- Configure Output Documentation
- Generating Manufacturing Information

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