



SOLIDWORKS ROUTING: ELECTRICAL

PREREQUISITES	LENGTH	DESCRIPTION
<ul style="list-style-type: none"> ■ SolidWorks Essentials or equivalent experience. 	<p>2 Days</p>	<ul style="list-style-type: none"> ■ Routing - Electrical explains how to create, edit and manage Electrical routes, from the critical routing components and their design requirements to the sub-assemblies that contain the routes.

► FUNDAMENTALS OF ROUTING

- What is Routing?
- Routing Setup
- Routing Library Manager
- General Routing Settings

► BASIC ELECTRICAL ROUTING

- Basic Electrical Routing
- Adding Routing Components
- Start by Drag and Drop Connector
- Auto Route
- Save to External File
- Exercise 1: Basic Electrical Routing

► ROUTING WITH CLIPS

- Routing with Clips
- Routing through Existing Clips
- Adding Clips while Auto Routing
- Editing a Route
- Working with Clips
- Routing Through a Clip
- Splitting a Route
- Adding a Splice
- Multiple Routes Through a Clip
- Exercise 2: Editing Electrical Routes
- Exercise 3: Adding Splices

► ELECTRICAL ROUTING COMPONENTS

- Routing Library Parts Introduction
- Electrical Routing Library Parts
- Libraries
- Routing Component Wizard
- Routing Component Geometry
- Routing Library Manager
- Routing Component Attributes
- Clip Axis and Axis of Rotation
- Electrical Libraries
- Exercise 4: Creating Routing Components
- Exercise 5: Creating and Using Electrical Clips

► STANDARD CABLES & REUSING ROUTES

- Using Standard Cables
- Standard Cables Excel File
- Modifying Standard Cables
- Creating a Standard Cable
- Reuse Route
- Delink Route
- Routing Templates
- Creating Custom Routing Templates
- Exercise 6: Using Standard Cables and Reuse Route
- Exercise 7: Creating Standard Cables



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► ELECTRICAL DATA IMPORT

- Importing Data
- Routing Library Manager
- From/To Lists
- Route Properties
- Route Guidelines
- Using Guidelines and Clips
- Exercise 8: Creating Libraries and From/To Lists

► ELECTRICAL DRAWINGS

- Route Flattening and Detailing
- Annotation Flattening
- Flatten Route
- Drawing Details
- Manufacture Flattening
- Exercise 9: Electrical Drawings

► FLEX CABLES

- Flex Cables
- Flex Cable Routes
- Flex Cable Auto Routing
- Manual Sketching
- Using Flex Cables with Clips
- Exercise 10: Creating Flex Cables

► ELECTRICAL CONDUITS

- Electrical Conduits
- Rigid Conduits
- Orthogonal Routing with Auto Route
- Electrical Data in Conduits
- Manual Sketch Routing
- Flexible Electrical Conduits
- Electrical Routes through Ducts and Cable Trays
- Exercise 11: Electrical Conduits
- Exercise 12: Adding Cables and Editing Conduits