

# SOLIDWORKS Routing - Electrical Course

**LENGTH: 2 DAYS**

**Prerequisites:** SOLIDWORKS Essentials

**Description:** 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.



## Topics covered in this course are:

### Introduction

- About This Course
- Windows® 7
- Use of Color

### Lesson 1: Fundamentals of Routing

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

### Lesson 2: Basic Electrical Routing

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

### Lesson 3: Routing with Clips

- Routing with Clips
- Routing Through Existing Clips
- Adding Clips while Auto Routing
- Editing a Route
- Working with Clips
- Splitting a Route
- Adding a Splice

### Lesson 4: Electrical Routing

#### Components

- Routing Library Parts Introduction
- Electrical Routing Library Parts Libraries
- Routing Component Wizard
- Routing Component Attributes
- Electrical Libraries

### Lesson 5: Standard Cables

- Using Standard Cables
- Standard Cables Excel® File
- Modifying Standard Cables
- Creating a Standard Cable
- Routing Templates

### Lesson 6: Electrical Data Import

- Importing Data
- Routing Library Manager
- From/To Lists
- Route Properties
- Route Guidelines
- Using Guidelines and Clips

### Lesson 7: Electrical Drawings

- Route Flattening and Detailing
- Annotation Flattening
- Flatten Route
- Manufacture Flattening

### Lesson 8: Electrical Ribbon Cables

- Electrical Ribbon Cables
- Ribbon Cable Components
- Auto Routing Ribbon Cables
- Using Ribbon Cable Clips
- Through Connectors
- Ribbon Cable Libraries

### Lesson 9: Electrical Conduits

- Electrical Conduits
- Rigid Conduit
- Orthogonal Routing with Auto Route
- Electrical Data in Conduits
- Manual Sketch Routing
- Flexible Electrical Conduit

### Appendix A: Review Section

- Review of Configurations
- A Note About File References
- Design Tables
- Review of Top Down Design
- Editing Options
- Review of Design Library Task Pane
- Review of 3D Sketching



### Training Registration

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**Training Registration**

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