

SOLIDWORKS Routing: Electrical Course Outline

 DURATION/TIME 2 Days 9:00 am - 5:00 pm	 METHODOLOGY Practical hands-on with using computers, lecturing, discussions and case studies.
 PREREQUISITES Experience with the Windows™ Operating System. Attended SOLIDWORKS Essentials training course	 TARGET Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer

INTRODUCTION

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.

OBJECTIVE

At the end of this program participants are expected to:

- Understand the concept of routing in SOLIDWORKS and how to use it.
- Design routes consisting of standard and custom electrical components.
- Create electrical drawing to visualize cables routes and all component arrangements.

CONTACT

IME CADCAM RESOURCE CENTRE SDN BHD
Certified ISO 9001:2015 QMS

 www.training.cadcam.com.my

 training@cadcam.com.my

 +6019-659 2186



SOLIDWORKS Routing: Electrical

DAY 1

Course Outline:

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

Lesson 3: 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

Lesson 4: Electrical Routing Components

- Routing Library Part Introduction
- Electrical Routing Library Part
- Libraries
- Routing Component Wizard
- Routing Component Attributes
- Electrical Libraries
- Sharing a Model

Lesson 5: Standard Cables and Reusing Routes

- Using Standard Cables
- Standard Cables Excel File
- Modifying Standard Cables
- Creating a Standard Cable
- Reuse Route
- Delink Route
- Routing Templates

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SOLIDWORKS Routing: Electrical

DAY 2

Course Outline:

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: Flex Cables

- Flex Cables
- Flex Cable Routes
- Flex Cable Auto Routing
- Using Flex Cables with Clips

Lesson 9: Electrical Conduits

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

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