

# CATIA V5 Electrical Harness Design Course

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-12-08

**End Date:** 2025-12-12

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** EAPET

**Course Code:** EAPET-70

## Syllabus

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### Introduction

Through this course, the participant will be able to learn CATIA V5 Electrical Harness Design. On completion of this course, participants will be able to:

- Understand the process and methods of Electrical Harness Design
- Learn Electrical Library Installation
- Convert Mechanical parts into Electrical parts
- Create Electrical Assembly Design
- Create 3D Routing for Electrical Harness Assembly

### Course Contents

#### Introduction to Electrical Harness Design

## **Electrical Part Design**

- Launch the workbench of Electrical Part Design
- GUI of Electrical Part Design
- Convert Mechanical Parts into Electrical Parts
- Define Equipment and Cavity Connection point
- Define Device Connector and Connector Connection point
- Define Backshell and Bundle Connection point
- Define Shell and Cavity Connection point
- Create New Catalog and Catalog Chapters
- Add Electrical component into Catalog

## **Electrical Assembly Design**

- Launch workbench of Electrical Assembly Design
- GUI of Electrical Assembly Design
- Import Electrical component
- Assemble Electrical components

## **Electrical Harness Design of Product-1**

- Launch workbench of Electrical Harness Installation
- GUI of Electrical Harness Installation
- Customize the settings
- Create Geometrical Bundle
- Route the Bundle Segment
- Definition of Bundle Segment
- Add Branch Point
- Analyze the Product with Harness Bundle Segment

## **Electrical Harness Design of Product-2**

- Convert Mechanical Parts into Electrical Parts like Support and Connector
- Place Support and Connector on the product from Catalog
- Create the Electrical Harness Bundle Segment
- Create Protective Covering
- Add and Remove Support

- Manage Multiple Bundle Segment

#### **Electrical Harness Design of Product-4**

- Create Geometrical Bundle
- Reference steps to practice the exercise