

CATIA V5 Electrical Harness Design Training

Description

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:

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- 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

- Importance of Electrical Harness Design
- Digital Mock-Up(DMU)
- Electrical Harness Design work flow

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

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Electrical Harness Design of Product-3

- Route the Bundle Segments through the Supports
- Use the Arrange Bundle Segment tool to modify Clash
- Manage Multiple Bundle Segment

Electrical Harness Design of Product-4

- Create Geometrical Bundle
- Reference steps to practice the exercise