



IFS ACADEMY

Training For The Future!!



CATIA V5 Electrical Wiring Harness Design

Course Curriculum (Duration: 40 Hrs.)

Chapter 1: Sketcher

- Reference elements point, line and plane
- Profile
- Lines
- Circles
- Rectangular
- Sketch tools
- Visualization
- Operations
- Constraints

Chapter 2: Part Design

- Dress-up features
- Sketch-based features
- Transformations features
- Body define
- Assemble
- Pad
- Pocket
- Fillet
- Chamfer

Chapter 3: Assembly

- Types of Assembly
- Top down Assembly
- Bottom up Assembly
- Move
- Product structure tools
- Constraints

Chapter 4: Defining Electrical Components

- Define Connector
- Define Clip
- Define Grommet
- Electrical Connection Points
- Electrical Device Definition



Chapter 5: Electrical Wire Routing

- Wire bundle routing
- Bundle diameter calculation
- Wire size calculation
- Catalogue Creation for protection

Chapter 6: Electrical Harness Flattening

- Harness flatten parameters
- Extract
- Flatten

Chapter 7: Drafting (2D Manufacturing Drawings)

- Views
- Annotations
- Geometry Manipulations
- Drawing
- Geometry Creation
- Dimensioning
- Text properties

Chapter 8: Reverse Engineering

- Continuity test
- Address sheet
- BOM
- 2D drawings
- Splice chart
- Check sheet for drawings checking

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