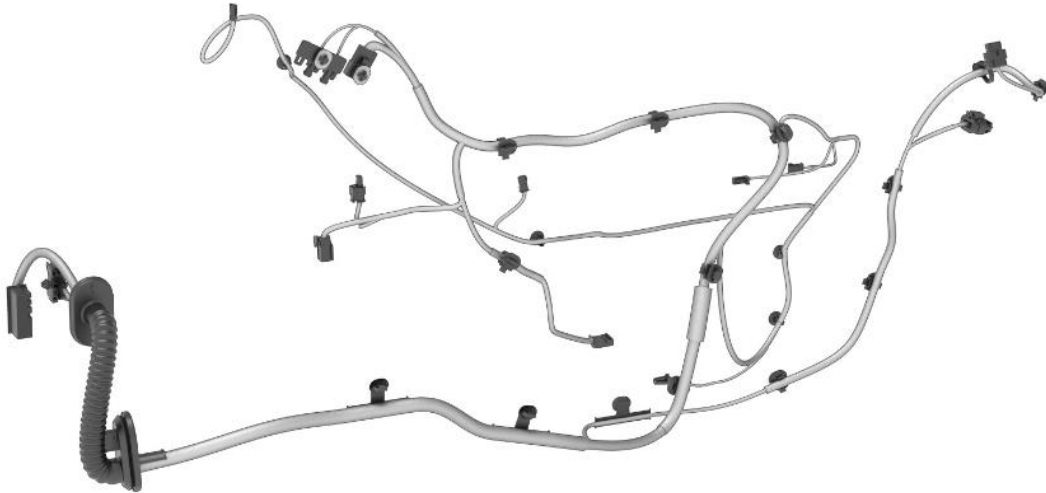
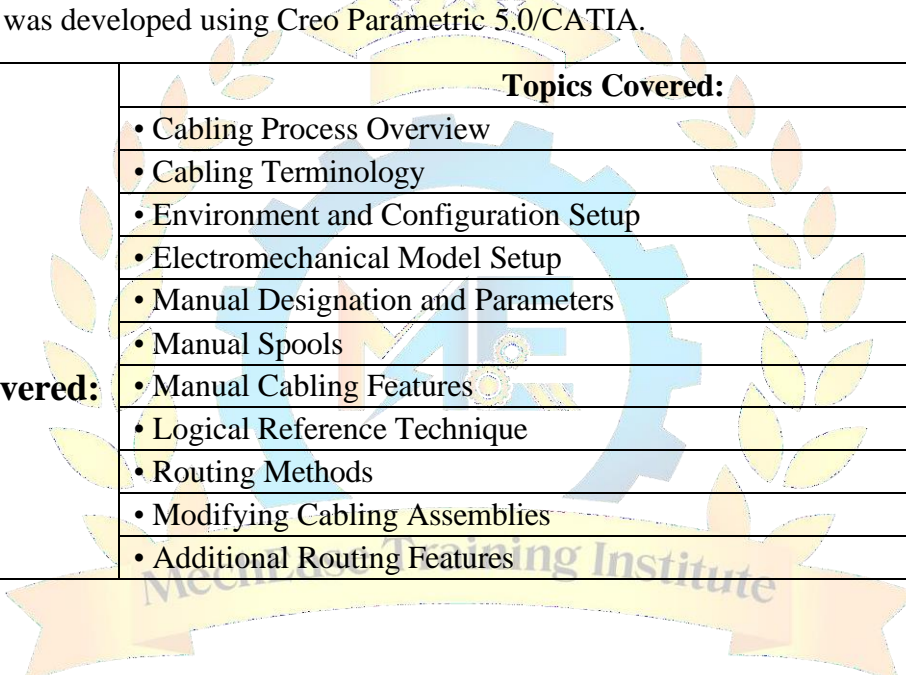


## Wiring Harness Design Syllabus



Lecture Details	Topics to be covered
<b>Preface</b>	
<p>As an experienced user in the basics of Creo Parametric 5.0/CATIA, this learning guide enables you to create electromechanical cabling systems designed in Creo Parametric/CATIA using the Piping and Cabling Extension. Utilizing the parametric and associative nature of Creo Parametric/CATIA, an electromechanical designer can easily create realistic 3D cabling assemblies, wire lists, bill of material tables, and nail-board drawings. The Creo Parametric 5.0/CATIA Cable and Harness Design learning guide contains numerous practices to give you practical experience that will improve your job performance. This content was developed using Creo Parametric 5.0/CATIA.</p>	
<b>Topics Covered:</b>	<b>Topics Covered:</b>
	• Cabling Process Overview
	• Cabling Terminology
	• Environment and Configuration Setup
	• Electromechanical Model Setup
	• Manual Designation and Parameters
	• Manual Spools
	• Manual Cabling Features
	• Logical Reference Technique
	• Routing Methods
	• Modifying Cabling Assemblies
• Additional Routing Features	



# MechEase Training Institute...

	<ul style="list-style-type: none"> <li>• Networking</li> <li>• Cabling Assembly Deliverables</li> <li>• HARNESS-MFG</li> </ul>
<b>Chapter 1</b>	<b>Chapter 1: Process Overview</b>
	<b>1.1 Electromechanical Overview</b>
	• Process Overview
<b>Chapter 2</b>	<b>Chapter 2: Overview and Environment</b>
	<b>2.1 Cabling Process Overview.</b>
	• Process Overview
	<b>2.2 Cabling Terminology.</b>
	<b>2.3 Create a New Cabling Assembly.</b>
	<b>2.4 Set Up Environment</b>
	<ul style="list-style-type: none"> <li>• Model Tree Use in Cabling.</li> <li>• Color Settings</li> </ul>
<b>Chapter 2</b>	<b>2.5 Set Up the Configuration File</b>
	• Config.Pro
	<b>Practice 2a Initial Environment Setup.</b>
<b>Chapter 3</b>	<b>Chapter 3 : Electromechanical Model Setup</b>
	<b>3.1 Placement Models</b>
	<b>3.2 Electromechanical Models</b>
	<ul style="list-style-type: none"> <li>• Electromechanical Model Types</li> <li>• Entry Ports.</li> </ul>
	<b>3.3 Obtaining Models</b>
	<ul style="list-style-type: none"> <li>• Manual Creation</li> <li>• Creo Parametric Connector Library/CATIA</li> </ul>
	• Vendor Models
	<b>3.4 Cable Activation.</b>
	<b>3.5 Harness Creation.</b>
	<ul style="list-style-type: none"> <li>• Create a Harness Part</li> <li>• Create Harness Subassembly</li> </ul>
<b>Chapter 4</b>	<b>Chapter 4: Designation and Parameters (Manual)</b>
	<b>4.1 Manually Designate Models.</b>
	<b>4.2 Electromechanical Model Parameters</b>
	<b>4.3 Assign Parameters</b>
	<ul style="list-style-type: none"> <li>• Modify Values</li> <li>• Assigning Values..</li> </ul>
	• Add or Delete Values.
	<b>Practice 4a Manually Designate Models</b>
<b>Chapter 5</b>	<b>Chapter 5: Spools (Manual).</b>
	<b>5.1 Manual Spool Creation.</b>
	<ul style="list-style-type: none"> <li>• Spool Types.</li> <li>• Cable Stripes.</li> </ul>
	• Default Spool Parameters.
	<b>5.2 Modifying Spools.</b>
	<ul style="list-style-type: none"> <li>• Redefining Spools.</li> <li>• Renaming Spools.</li> </ul>
	<b>5.3 Storing and Retrieving Spool Files</b>
	<ul style="list-style-type: none"> <li>• Retrieving Spool Files.</li> <li>• Storing Spool Files.</li> </ul>
<b>Practice 5a Manually Create Spools.</b>	

# MechEase Training Institute...

<b>Chapter 6</b>	<b>Chapter 6: Cabling Features (Manual)</b>	
	<b>6.1 Wire, Cable, and Ribbon Features.</b>	
	<b>Practice 6a Manually Create Cabling Features.</b>	
<b>Chapter 7</b>	<b>Chapter 7: Logical Reference Technique.</b>	
	<b>7.1 Introduction to Logical References.</b>	
	<b>7.2 Logical Reference Option.</b>	
	•Ref Diagram.	•Clear Reference.
	•Import.	•Compare.
	•Export.	•Update.
<b>Chapter 7</b>	<b>7.3 Designate Models Using Logical References.</b>	
	•Manual Designation.	•Auto Designation.
	<b>7.4 Entry Ports from Logical References..</b>	
	<b>7.5 Spools from Logical References..</b>	
	<b>7.6 Cabling Features from Logical References.</b>	
	<b>7.7 Modifying Component Parameters.</b>	
<b>Chapter 8</b>	<b>Chapter 8: Routing Method.</b>	
	<b>8.1 Introduction to Routing.</b>	
	<b>8.2 Route Wires and Cables.</b>	
	•Wire/Cable Selection.	•Routing Options
	<b>8.3 Route with Bundles.</b>	
	•Creating Bundles	•Options
	•Creating Bundles On The Fly	
	<b>Practice 8a Manual Routing - No Logical References.</b>	
	<b>Practice 8b Manual Routing - Logical References.</b>	
<b>Chapter 9</b>	<b>Chapter 9: Modifying a Cabling Assembly.</b>	
	<b>9.1 Cabling Tab.</b>	
	<b>9.2 Route Group.</b>	
	•Reroute Segment.	•Reroute Location.
	<b>9.3 Modify Menu.</b>	
	<b>9.4 Locations Group</b>	
	<b>9.5 Logical Data and Components Groups.</b>	
	<b>Practice 9a Modify a Cabling Assembly.</b>	
<b>Chapter 10</b>	<b>Chapter 12: Cabling Assembly Deliverables.</b>	
	<b>10.1 System Bill of Materials.</b>	
	<b>10.2 Cabling Information.</b>	
	<b>10.3 Location Information.</b>	
	<b>Practice 12a Deliverables.</b>	
<b>Chapter 13: HARNESS-MFG</b>	<b>Chapter 13: HARNESS-MFG</b>	
	<b>11.1 HARNESS-MFG Introduction.</b>	
	<b>11.2 HARNESS-MFG File Structure.</b>	
	<b>11.3 Harness Flattening.</b>	
	•Manual Flattening	•Fan Out

# MechEase Training Institute...

<b>Chapter 11</b>	•Auto-Flattening	
	<b>11.4 Model Placement in a Flattened Harness</b>	
	•Manual	•Automatic
	<b>11.5 Modifying a Flattened Harness</b>	
	•Modify	•Twist
	•Move Segment	•Break
	•Bend	•Delete
	<b>11.6 Harness Information</b>	
	•2D-3D Info	•Component
	•Wire List	•Flat Status
	•Branch Info	
<b>Practice 11a Harness Manufacturing</b>		
<b>Chapter 12</b>	<b>Chapter 12: Capital Harness XC (2D)</b>	
	<b>12.1 Creating 2D Drawing</b>	
	• Harness design in XC	• Bundle Adding
	<b>12.2 Add connector and terminal, Splice ,wire , Insulations etc</b>	
<b>Practice Capital Harness XC (2D)</b>		
<b>Note:-</b>		
<b>I. Maximum Holidays allowed to students are 5 in the duration</b>		
<b>II. Student should inform first before taking a leave or holiday</b>		
<b>III. Every student is bound to complete his course within time limits</b>		
<b>IV. Topics other than this can be taught on student demand, charging some extra fee</b>		
<b>V. Increase in the duration will cost some extra fee</b>		
<b>MechEase Training Institute</b>		

