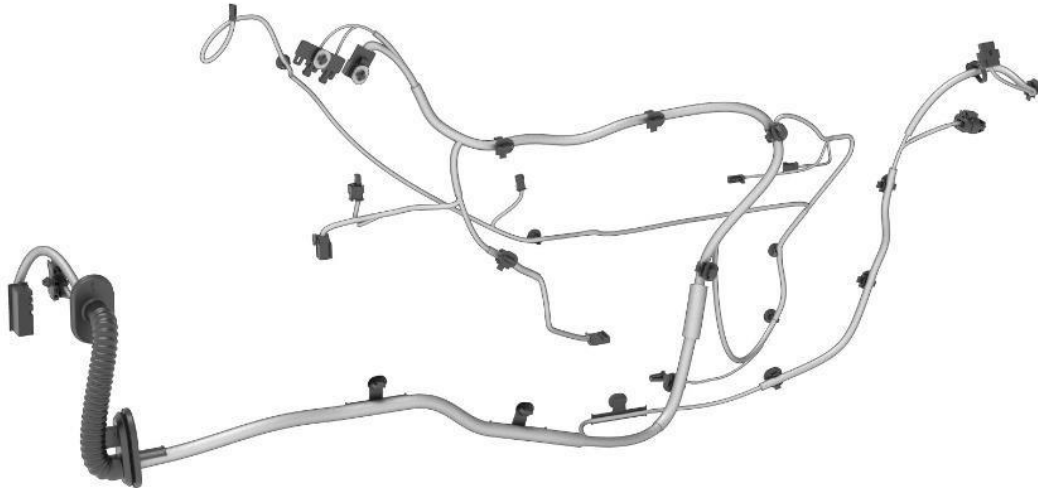
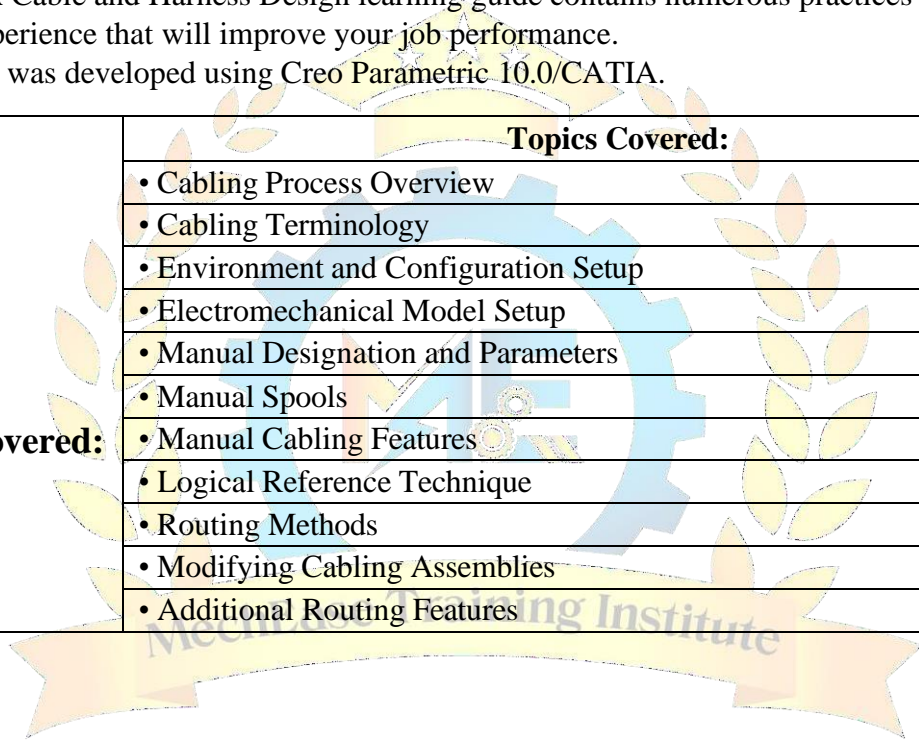


Wiring Harness Design Syllabus



Lecture Details	Topics to be covered
Preface	
<p>As an experienced user in the basics of Creo Parametric 10.0/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 10.0/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 10.0/CATIA.</p>	
Topics Covered:	Topics Covered:
	• 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	



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

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

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Chapter 11	•Auto-Flattening	
	11.4 Model Placement in a Flattened Harness	
	•Manual	•Automatic
	11.5 Modifying a Flattened Harness	
	•Modify	•Twist
	•Move Segment	•Break
	•Bend	•Delete
	11.6 Harness Information	
	•2D-3D Info	•Component
	•Wire List	•Flat Status
	•Branch Info	
	Practice 11a Harness Manufacturing	
Chapter 12	Chapter 12: Capital Harness XC (2D)	
	12.1 Creating 2D Drawing	
	• Harness design in XC	• Bundle Adding
	12.2 Add connector and terminal, Splice ,wire , Insulations etc	
	Practice Capital Harness XC (2D)	
Note:-		
I. Maximum Holidays allowed to students are 5 in the duration		
II. Student should inform first before taking a leave or holiday		
III. Every student is bound to complete his course within time limits		
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