

## PTC CREO (BASIC + ADVANCE) TRAINING AGENDA (10 DAYS)

DAY	SESSION	TIME	TOPICS
1	1	10 A.M. TO 10.30 A.M.	➤ Inauguration Ceremony
		10.30 A.M. TO 12.30 P.M.	➤ <b>INTRODUCTION OF CAD-CAM-CAE</b> ➤ <b>DESIGN CONCEPT AND PROCEDURE</b> Introduction & Understanding to Creo Parametric Concepts Using the Creo Parametric Interface Selecting & Editing of Geometry, Features, Models
	<b>LUNCH</b>		
	2	1.15 P.M. TO 3.15 P.M.	➤ <b>SKETCHER</b> Creating Sketcher Geometry & Using Sketcher Tools
		3.15 P.M. TO 4.15 P.M.	➤ <b>PART MODELING (SOLID)</b> Using Datum Features (Planes, Axis, Points)
	4.15 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>	
2	1	10 A.M. TO 11.30 A.M.	Using Sketches & 3D Wire frame structure Creating Extrudes Revolves
		11.30 A.M. TO 12.30 P.M.	Creating Holes, Rounds & Chamfers
	<b>LUNCH</b>		
	2	1.15 P.M. TO 3.15 P.M.	All types Patterns Shell Using Layers concept Draft & Rib
		3.15 P.M. TO 4.00 P.M.	Creating Sweeps and Sweeps with Variable Sections
	4.00 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>	
3	1	10 A.M. TO 11.45 A.M.	Blends Rotational Blends Swept Blends Helical Sweeps
		11.45 A.M. TO 12.30 P.M.	<b>PRACTICE SESSION</b>
	<b>LUNCH</b>		
	2	1.15 P.M. TO 2.00 P.M.	Toroidal Bend Spinal Bend Cosmetics (Thread, Sketch)
		2.00 P.M. TO 3.30 P.M.	Groups, Copy, Mirror Scale Model, Measuring, Inspecting Models References, Suppress, Resolving Failures Curves
	3.30 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>	
4	1	10 A.M. TO 11.30 A.M.	Relations Parameters Family Tables
		11.30 A.M. TO 12.30 P.M.	Model Properties 3D Annotations Merge, Shrink Wrap, Import Publish & Copy Geometry
	<b>LUNCH</b>		
	2	1.15 P.M. TO 2.30 P.M.	➤ <b>FLEXIBLE MODELING</b> Introduction to Flexible Modeling Editing in model ➤ <b>SURFACE MODELING</b> Surface Modeling Overview Boundary Blend Surfaces

		2.30 P.M. TO 3.30 P.M.	Trim, Merge, Extend, Project, Intersect, Offset, Thicken, Solidify, Fill, Style, Freestyle Wrap, Warp, Split & Remove surface Surface Analysis Tools
		3.30 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
5	1	10 A.M. TO 11.15 A.M.	➤ <b>SHEET METAL MODELING</b> Sheet metal Design Process & Fundamentals Creating Primary & Secondary Sheetmetal Wall Features Bending, Unbending & Modifying Sheetmetal Models
		11.15 A.M. TO 12.30 P.M.	Conversion of solid to Sheetmetal Bends, Rips, forming (Die-Punch), Split Area & Creating Offset Wall Bend Order Generation & Feature based Family Table
	<b>LUNCH</b>		
	2	1.15 P.M. TO 2.00 P.M.	<b>PRACTICE SESSION</b>
		2.00 P.M. TO 4.00 P.M.	➤ <b>ASSEMBLY DESIGN</b> Assembling with All Constraints (Bottom Up) Exploding, Replacing Components, Cross-Sections in Assemblies View Manager Assembly Level cutting features User Defined Features (UDF)
		4.00 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
6	1	10 A.M. TO 11.30 A.M.	<b>Advance Assembly Top Down Approach</b> Model Analysis & Inspecting Assembly Component Operations Component Interfaces, Flexible Components, Restructuring, Simplified Reps Creating and Using Assembly Structure and Skeleton Intelligent Fasteners
		11.30 A.M. TO 12.30 P.M.	<b>PRACTICE SESSION</b>
	<b>LUNCH</b>		
	2	1.15 P.M. TO 2.30 P.M.	➤ Feasibility & Optimization with case study Draft Analysis Mass properties
		2.30 P.M. TO 3.00 P.M.	➤ <b>FRAMEWORK DESIGN</b>
		3.00 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
7	1	10 A.M. TO 11.30 A.M.	➤ <b>ASSEMBLY WITH JOINTS</b> Pin, Cylinder, Slider, planner etc.
		11.30 A.M. TO 12.30 P.M.	➤ <b>MANIKIN PLACEMENT</b> ➤ <b>WELDING</b>
	<b>LUNCH</b>		
	2	1.15 P.M. TO 3.00 P.M.	➤ <b>FORMAT DESIGN</b> ➤ Title Block Design & Drawing Format ➤ <b>TEMPLATE CREATION</b> Part Modeling Template Assembly Design Template Drawing Template
		3.00 P.M. TO 3.30 P.M.	➤ <b>CUSTOMISATION</b> Map keys Configuration Editing Customize the default Settings Drawing Properties
		3.30 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
8	1	10 A.M. TO 11.30 A.M.	➤ <b>DETAILING (DRAWING)</b> Introduction, Creating New Drawings & Drawing Views

			Projection, Auxiliary, Detail Views Section View, Half, Partial Views
		11.30 A.M. TO 12.30 P.M.	Adding Model Details & Tolerance Information to Drawings
	<b>LUNCH</b>		
	2	1.15 P.M. TO 3.00 P.M.	Adding Notes, Symbols Bill of Material Tables Balloons
		3.00 P.M. TO 3.30 P.M.	➤ <b>ADVANCE PHOTORENDERING</b> ➤ <b>AUGMENTED REALITY</b>
		3.30 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
9	1	10 A.M. TO 11.30 A.M.	➤ <b>MECHANISM ANALYSIS</b> Assembling with Joints Apply Mechanism Gears, Motors, Dampers, cams, belts
		11.30 A.M. TO 12.30 P.M.	Dynamic Simulation Animate Mechanism
	<b>LUNCH</b>		
	2	1.30 P.M. TO 3.30 P.M.	➤ <b>CREO SIMULATE (CAE)</b> Static Structural Analysis Vibration Analysis Thermal Analysis V.M. Stress, Principal Stress, Strain & Deformation of Part Model
		3.30 P.M. TO 5.00 P.M.	<b>PRACTICE SESSION</b>
10	1	10 A.M. TO 11.00 A.M.	➤ <b>CREO VIEW EXPRESS</b> Visualization of assemblies using transformation & rotational tool Create Section views
		11.00 A.M. TO 12.30 P.M.	➤ <b>MATHCAD</b> Solve all type of Mathematical & Engineering Calculation ➤ Discussion regarding general Engineering Parameters use in design. ➤ GD&T
	<b>LUNCH</b>		
	2	1.15 P.M. TO 4.30 P.M.	Q & A Queries & Doubts Solving Some Industrial Case Studies Career motivation for Engineering side SAE Discussion
		4.30 P.M. TO 5.00 P.M.	Closing Ceremony Certificate Distribution