



BELL INSTITUTE OF TECHNOLOGY
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SOLIDWORKS TRAINING COURSE OUTLINE

Duration: 10 Days (2 Weeks) at 2 hours per Day or 1 week at 4 hours per Day.

Costs: At the Training Centre: 10,000/=

At the client office in CBD: 12,000/=

At the clients office in Outskirts of CBD: 15,000/=

Registration Fee: one time, 500/=

SESSION 1: SOLIDWORKS BASICS AND THE USER INTERFACE	What is the SOLIDWORKS Software? Design Intent File References Opening Files The SOLIDWORKS User Interface Using the Command Manager
SESSION 2: INTRODUCTION TO SKETCHING	2D Sketching Saving Files What are We Going to Sketch? Sketching Sketch Entities Basic Sketching Rules That Govern Sketches Design Intent Sketch Relations Dimensions Extrude Sketching Guidelines

SESSION 3: BASIC PART MODELING	<ul style="list-style-type: none"> Basic Modeling Terminology Choosing the Best Profile Choosing the Sketch Plane Details of the Part Boss Feature Sketching on a Planar Face Cut Feature View Selector Using the Hole Wizard Filleting Editing Tools Detailing Basics Drawing Views Center Marks Dimensioning Changing Parameters
SESSION 4: SYMMETRY AND DRAFT	<ul style="list-style-type: none"> Case Study: Ratchet Design Intent Boss Feature with Draft Symmetry in the Sketch Sketching Inside the Model View Options Using Model Edges in a Sketch Creating Trimmed Sketch Geometry
SESSION 5: PATTERNING	<ul style="list-style-type: none"> Why Use Patterns? Linear Pattern Circular Patterns Reference Geometry Planes Mirror Patterns Using Pattern Seed Only Sketch Driven Patterns
SESSION 6: REVOLVED FEATURES	<ul style="list-style-type: none"> Case Study: Handwheel Design Intent Revolved Features Building the Rim Building the Spoke Edit Material Mass Properties File Properties

	SOLIDWORKS SimulationXpress Using SOLIDWORKS SimulationXpress The SimulationXpress Interface
SESSION 7: SHELLING AND RIBS	Shelling and Ribs Analyzing and Adding Draft Other Options for Draft Shelling Ribs Full Round Fillets Thin Features
SESSION 8: EDITING: REPAIRS	Part Editing Editing Topics Sketch Issues Freezing Features FilletXpert
SESSION 9: EDITING: DESIGN CHANGES	Part Editing Design Changes Information From a Model Rebuilding Tools Replace Sketch Entity Sketch Contours
SESSION 10: CONFIGURATIONS	Configurations Using Configurations Other Methods to Create Configurations Using Global Variables and Equations Creating Equalities Global Variables Defining the Overall Width Equations Creating a Minimum Edge Distance Modeling Strategies for Configurations Editing Parts that Have Configurations Design Library In the Advanced Course...
SESSION 11: USING DRAWINGS	More About Making Drawings Section View Model Views Broken View Detail Views Drawing Sheets and Sheet Formats Projected Views Annotations
SESSION 12: BOTTOM-UP AS-	Case Study: Universal Joint

SEMBLY MODELING	Bottom-Up Assembly Creating a New Assembly Position of the First Component FeatureManager Design Tree and Symbols Adding Components Mating Components Using Part Configurations in Assemblies Sub-assemblies Smart Mates Inserting Sub-assemblies Pack and Go
SESSION 13: USING ASSEMBLIES	Using Assemblies Analyzing the Assembly Checking for Clearances Changing the Values of Dimensions Exploded Assemblies Explode Line Sketch Bill of Materials Assembly Drawings
END OF COURSE PROJECT	In related Professional Field