

Certified SolidWorks Expert - Advanced Part Modelling & Assembly Modelling		
Course Code: CAD04	Level: 3	Duration: 3 Days
Manuals Supplied		Advanced Part Modelling & Assembly Modelling
Description	The first part of this course will teach you how to use multibody solids, sweeping and lofting features, and the more advanced shaping capabilities of SolidWorks. In the second part you will learn how to maximize your use of the assembly modelling capabilities of SolidWorks including 'Top-Down' Assembly modelling and managing large assemblies.	
Prerequisites	CAD01 (Certified SolidWorks Essentials – Part & Assembly Modelling) CAD02 (Certified SolidWorks Drawings & Detailing)	
The topics covered in the first part of this course are:		
<p>Introduction About This Course Using this Book Windows® 7 Use of Colour Hide/Show Tree Items</p> <p>Lesson 1: Multibody Solids Multibody Solids Bridging Introducing: Solid Bodies Folder Extrude From Local Operations Combined Bodies Introducing: Combine Common Bodies Tool Body Introducing: Insert Part Introducing: Move/Copy Bodies Introducing: Mate Reference Patterning Indent Feature Using Cut to Create Multibodies Saving Solid Bodies as Parts and Assemblies Introducing: Insert into New Part Feature Scope Introducing: Save Bodies Splitting a Part into Multibodies Introducing: Split Creating an Assembly Introducing: Create Assembly Using Split Part with Legacy Data</p>	<p>Lesson 2: Sweeps Introduction Sweeping Case Study: Modelling a Spring Sweeping Along a 3D Path 3D Sketching Introducing: Helix and Spiral Introducing: Projected Curve Introducing: Composite Curve Introducing: Sweep Introducing: Fit Spline Case Study: Bottle Sweeping and Lofting: What's the Difference? Creating a Curve Through a Set of Points Introducing: Insert Ellipse Sweep Options Sweep with Guide Curves The Label Shape Working with a Non-planar Path Variable Radius Filleting Introducing: Split Lines Analyzing Geometry Introducing: Display Curvature Introducing: Show Curvature Combs Introducing: Intersection Curve Introducing: Zebra Stripes Filleting the Label Outline Selecting Edges Introducing: Select Loop Performance Considerations Modelling Threads Orientation and Twist Control Align with End Faces</p>	<p>Sweeping Along Model Edges Introducing: SelectionManager Sweeping a Tool Body</p> <p>Lesson 3: Lofts and Splines Basic Lofting Introducing: Loft Using Derived and Copied Sketches Copying a Sketch Derived Sketches Introducing: Insert Derived Sketch Centreline Lofting Introducing: Split Entities Cleaning Up a Model Introducing: Delete Face Introducing: Deviation Analysis Spline Sketching Introducing: Spline Advanced Lofting Introducing: Sketch Picture Layout Sketches Boundary Feature</p> <p>Lesson 4: Other Advanced Tools Advanced Fillets Wrap Feature Introducing: Wrap Introducing: Equation Driven Curves Deform Feature Introducing: Knit Surface Move Face and Delete Face Introducing: Move Face Using 3D Sketch with the Hole Wizard</p> <p style="text-align: right;">Continued Overleaf ...</p>
Second Part of this Course detailed overleaf		

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Certified SolidWorks Expert - Advanced Part Modelling & Assembly Modelling (Cont.)		
The topics covered in the second part of this course are:		
<p>Introduction About This Course Use of Colour</p> <p>Lesson 1: Top-Down Assembly Modelling Top-Down Assembly Modelling Stages in the Process Building Virtual Parts Building Parts in an Assembly In-Context Features Propagating Changes Saving Virtual Parts as External External References Breaking External References Removing External References</p> <p>Lesson 2: Assembly Features and Smart Fasteners Assembly Features and Smart Fasteners Stages in the Process Assembly Features Smart Fasteners</p> <p>Lesson 3: Advanced Mate Techniques Advanced Mates Adding Mate References Design Library Parts Capture Mate References</p>	<p>Smart Components Advanced and Mechanical Mate Types Summary: Inserting and Mating Components Multiple Mate Mode Using Copy with Mates Mate Options</p> <p>Lesson 4: Using Configurations with Assemblies Using Configurations with Assemblies Stages in the Process Component Patterns Configuration Properties Using Configure Component Creating Configurations Manually Configuration Publisher</p> <p>Lesson 5: Display States and Appearances Display States Bulk Selection Tools Advanced Select Envelopes Appearances, Materials and Scenes</p> <p>Lesson 6: Assembly Editing Assembly Editing Key Topics Editing Activities Replacing and Modifying Components</p>	<p>Troubleshooting an Assembly Replacing Components Using Save As Mirroring Components Hole Alignment Controlling Dimensions in an Assembly Sensors</p> <p>Lesson 7: Layout-based Assembly Design Layout-based Assembly Design Key Topics Blocks Inserting Blocks Creating a Part from a Block</p> <p>Lesson 8: Large Assemblies Large Assemblies Key Topics Lightweight Components Large Assembly Mode Selective Open with Hide Using Quick View / Selective Open Using SpeedPak Defeature Using Configurations with Large Assemblies Modifying the Structure of an Assembly Assembly Visualization Tips for Faster Assemblies Drawing Considerations</p>

Certified SolidWorks What's New in SolidWorks 2012			
Course Code: UPG11	Level: 3	Duration: 1 Day	Price in Training Vouchers: 2 Free of Charge to NT CAD/CAM Customers with an Active Subscription Contract
Manuals Supplied	SW2011 What's New Upgrade Guide		
Description	This course covers New Functionality released in SolidWorks 2011		
Prerequisites	CAD01 (Certified SolidWorks Essentials – Part & Assembly Modelling) CAD02 (Certified SolidWorks Drawings & Detailing)		