



SOLIDWORKS ASSEMBLY MODELING

PREREQUISITES	LENGTH	DESCRIPTION
<ul style="list-style-type: none"> ■ SolidWorks Essentials or equivalent experience. 	<p>2 Days</p>	<ul style="list-style-type: none"> ■ Assembly Modeling teaches students how to maximize their use of the assembly modeling capabilities of SolidWorks mechanical design automation software.
<p>▶ TOP-DOWN ASSEMBLY MODELING</p>		
<ul style="list-style-type: none"> ■ Methodology ■ Building Parts in an Assembly ■ Building Virtual Parts ■ Saving Internal Parts as External ■ In-Context Features ■ Propagating Changes ■ External References ■ Breaking or Removing External References 		
<p>▶ ASSEMBLY FEATURES & SMART FASTENERS</p>		
<ul style="list-style-type: none"> ■ Assembly Features: Hole Series ■ Toolbox: Smart Fasteners 		
<p>▶ ADVANCED MATE TECHNIQUES</p>		
<ul style="list-style-type: none"> ■ Adding Mate References ■ Mate Options ■ Multiple Mate Mode ■ Advanced and Mechanical Mate Types ■ Using "Copy with Mates" ■ Capture Mate References ■ Design Library Parts ■ Smart Component Creation 		
		<p>▶ USING CONFIGURATORS WITH ASSEMBLIES</p>
		<ul style="list-style-type: none"> ■ Component Patterns ■ Using Configure Component ■ Creating Configurations Manually ■ Using Configurations with Large Assemblies ■ Configuration Publisher
		<p>▶ DISPLAY STATES & APPEARANCES</p>
		<ul style="list-style-type: none"> ■ Bulk Selection Tools ■ Advanced Select ■ Envelopes ■ Appearances, Materials & Scenes
		<p>▶ ASSEMBLY EDITING</p>
		<ul style="list-style-type: none"> ■ Modifying the Structure of an Assembly ■ Replacing & Modifying Components ■ Replacing Components Using Save As ■ Controlling Dimensions in an Assembly ■ Mirroring Components ■ Assembly Equations ■ Hole Alignment Analysis ■ Sensors ■ Troubleshooting Assembly Errors



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LAYOUT-BASED ASSEMBLY DESIGN

- Creating, Modifying Blocks
- Various Use of Blocks
- Creating a Part From a Block

LARGE ASSEMBLIES

- Large Assembly Mode
- Assembly Visualization
- Drawing Considerations
- Lightweight Components
- Selective Quick View/ Selective Open
- Using SpeedPak
- Defeature
- Tips for Faster Assemblies