



## SolidWorks Assembly Modeling

Prerequisites	Length	Description
SolidWorks Essentials or equivalent experience.	2 Days	Assembly Modeling teaches students how to maximize their use of the assembly modeling capabilities of SolidWorks mechanical design automation software.

### Top-Down Assembly Modeling

- 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

### Assembly Features & Smart Fasteners

- Assembly Features: Hole Series
- Toolbox: Smart Fasteners

### Advanced Mate Techniques

- Adding Mate References
- Mate Options
- Multiple Mate Mode
- Advanced & Mechanical Mate Types
- Using "Copy with Mates"
- Capture Mate References
- Design Library Parts
- Smart Component Creation

### Using Configurations with Assemblies

- Component Patterns
- Using Configure Component
- Creating Configurations Manually
- Using Configurations with Large Assemblies
- Configuration Publisher

### Display States & Appearances

- Bulk Selection Tools
- Advanced Select
- Envelopes
- Appearances, Materials & Scenes

### Assembly Editing

- 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

### Layout-Based Assembly Design

- Creating, Modifying Blocks
- Various Uses 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

### Did You Know?

- CAD MicroSolutions keeps class sizes small (8 or less) to ensure that each student receives personal attention.
- A professionally catered lunch is provided each day.
- Our instructors have the highest level of certifications attainable.
- Our professional training facility is outfitted with optimized Dell and Boxx Workstations with 3DConnexion 3D Controllers.
- All attendees that successfully complete the course receive an official course certificate from Dassault Systemes SolidWorks Corporation recognizing their achievement.

*The CAD MicroSolutions Difference:  
Certified Training That Delivers Peak Performance*

