

API Fundamentals Course Information

This course teaches you how to use the SolidWorks API (Application Programming Interface) to automate and customize SolidWorks.

Course Length: 3 days

Hours: 8:30am – 4:30pm

Prerequisite:

- SolidWorks Essentials
- Visual Basic programming

Includes:

- Color Training Manual
- Completion Certificate

Course Contents:

- Using the Macro Recorder
 - Macro Toolbar
 - Understanding how Macro Code works
 - Passing Parameters
 - Cleaning up code
 - Adding Forms to a Macro
- The API Object Model
 - Application Objects
- Setting System Options and Document Properties
 - User Preferences (Systems Options and Document Properties)
 - Locating the correct APIs and Enumeration Values
- Automating Part Design
 - Automation Tool for Parts
- Assembly Automation
 - Automation Tool for Assemblies
- Drawing Automation
 - Automating Drawing Creation
- Selection and Traversal Techniques
 - The SolidWorks BREP Model
- Adding Custom Properties and Attributes
 - The Attribute Objects
- The SolidWorks API SDK
 - Choosing a Programming Language
- Customizing the SolidWorks User Interface
 - Understanding the Add-in Code
 - Property Pages
 - Property Page Groups and Controls
 - Removing Menus and Toolbars
- Notifications
 - Notification in VBA



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Reducing Time to Market

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- Certified Instructors leading training at our state-of-the art facilities

- Classes offered in several locations in MS, AL, and TN

- CIP is an Authorized SolidWorks and Simulation Training Center

- CIP offers classes on customer site
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- Schedule:
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