Training: SOLIDWORKS CAM Standard (2.5 days)

Prerequisites: Experience with the SOLIDWORKS design software.
Experience with the Windows® operating system.

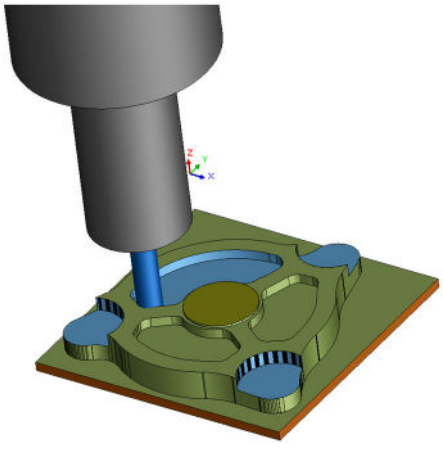
Description: This course teaches how to use the SOLIDWORKS CAM Standard software to generate, modify and post process 2.5 axis milling toolpaths used for the machining of SOLIDWORKS part files.

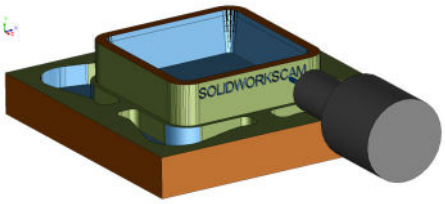
Introduction
- About This Course

Lesson 1: SOLIDWORKS CAM Basics and User Interface
- What is SOLIDWORKS CAM?
- SOLIDWORKS CAM User Interface
- Process Overview
- Generate Toolpaths and NC Code

Lesson 2: Automatic Feature Recognition (AFR) and Operation Modification
- Working with Features, Operations and Toolpaths

Lesson 3: Interactive Feature Recognition (IFR)
- Interactive Feature Creation
- Case Study: AFR and IFR Feature Creation
- Case Study: IFR 2.5 Axis Feature and Operation Creation
- Case Study: IFR 2.5 Axis Feature Selection Filters





Lesson 4: Interactive Operations
- Interactive 2.5 Axis Mill Operations
- Case Study: Interactive Operation Creation
- Case Study: Create Operations
- Save Operation Plan
- Case Study: Save Operation Plan

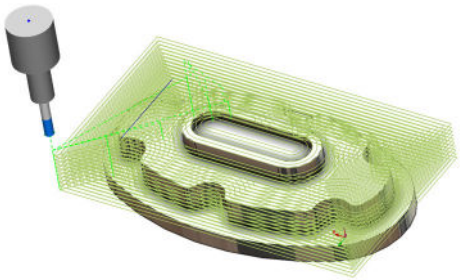
Lesson 5: Merging Features and Operations
- Machining Similar Features
- Case Study: Combine Operations
- Case Study: Combine Selected Operations

Lesson 6: Avoid and Contain Areas
- Adding Avoid and Contain Areas
- Case Study: Add Avoid Area

Lesson 7: Pattern Features and Mirror Toolpaths
- Patterning
- Case Study: Create Linear, Circular and Sketch Driven Patterns163 Mirror Toolpaths
- Case Study: Mirror Toolpaths

Lesson 8: Advanced Features and Operations
- Advanced Feature Creation
- Case Study: Engrave Feature Creation
- Case Study: Curve Feature Creation
- Case Study: Multi-stepped Hole Machining
- Case Study: Tap and Thread Mill
- Case Study: Corner Round and Chamfer
- Case Study: Multi Surface Feature

Lesson 9: Customizing the Technology Database
- SOLIDWORKS CAM Technology Database (TechDB)
- Case Study: User Defined Tool Creation
- Case Study: TechDB Add Machine
- Case Study: TechDB Add Tool
- Case Study: TechDB Create and Apply Strategy



Appendix A: Considerations for Waterjet, Plasma and Laser Machining
- Waterjet, Plasma and Laser Machining
- Case Study: Plasma Workflow

Appendix B: Tolerance Based Machining
- Tolerance Based Machining Overview
- Case Study: Tolerance Based Machining