



SOLIDWORKS CAM Standard

Prerequisites	Length	Description
Experience with the SOLIDWORKS design software and Windows operating system.	3 Days	This course introduces fundamentals and best practices in SOLIDWORKS CAM. The goal is to build on the current knowledge of designers or engineers in generating, modifying and post process 2.5 axis milling toolpaths used for machining parts.

SOLIDWORKS CAM User Interface

- SOLIDWORKS CAM User Interface
- Process Overview
- Case Study: Generate Toolpaths and NC Code
- Exercise 1-Generate Toolpaths and NC Code

Automatic Feature Recognition and Operation Modification

- Working with Features, Operations and Toolpaths
- Case Study: Working with Features, Operations and Toolpaths
- Exercise 2-Generate and Modify Toolpaths

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
- Exercise 3-Interactive Feature Creation

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
- Machining Similar Features
- Case Study: Combine Operations
- Adding Avoid and Contain Areas
- Case Study: Add Avoid Area
- Exercise 4-Interactive Operations
- Exercise 5-Link Operations
- Exercise 6-Avoid Areas

Pattern Features

- Patterning
- Case Study: Create Linear, Circular and Sketch Driven Patterns
- Exercise 7: Generate and Modify Toolpaths

Advanced Features and Operations

- Advanced Feature Creation
- Case Study: Engrave Feature Creation
- Case Study: Multi-stepped Hole Machining
- Case Study: Corner Round and Chamfer Machining
- Case Study: Multi Surface Feature Creation
- Exercise 8-Advances Features and Operations
- Exercise 9-Multi Surface Machining
- Exercise 10-User Defined Tool

Customizing the Technology Database

- SOLIDWORKS CAM Technology Database (TechDB)
- Case Study: TechDB Add Machine
- Case Study: TechDB Add Tool
- Case Study: Tech DB Create and Apply Strategy
- Exercise 11-Customize Technology Database
- Exercise 12-Add Tool to Tool Crib

