

# TRAINING: SOLIDWORKS CAM Standard (3 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 machining SOLIDWORKS part files.

## Introduction

- ☒ About This Course

## Lesson 1: SOLIDWORKS CAM Basics and User Interface

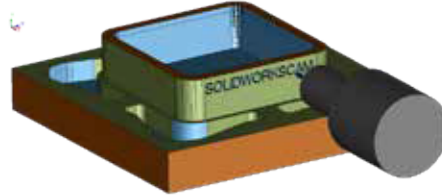
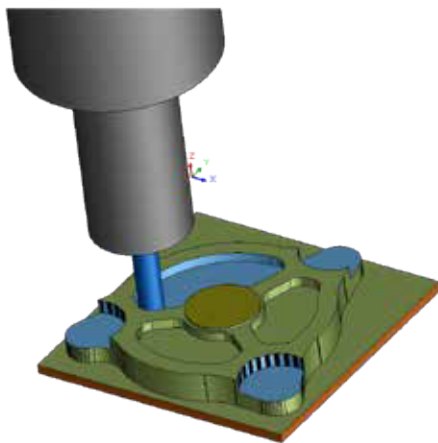
- ☒ What is SOLIDWORKS CAM?
- ☒ SOLIDWORKS CAM User Interface
- ☒ Process Overview
- ☒ Generate Toolpaths and NC Code

## 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 Patterns
- ☒ 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

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