Training: SOLIDWORKS CAM Professional (2 days)

Prerequisites: Experience with the SOLIDWORKS design software, Completion of SOLIDWORKS CAM Standard training class.

Description: This course teaches how to use the SOLIDWORKS CAM Professional software. Topics include: VoluMill™, mill machining in the context of an assembly, and 3 plus 2 machining. Additionally, the course teaches how to generate, modify and post process 2 axis turning toolpaths used for the machining of SOLIDWORKS part files.

Introduction
- About This Course

Lesson 1: SOLIDWORKS CAM Configurations
- SOLIDWORKS CAM Product Review
- SOLIDWORKS CAM Configurations
- Case Study: Using Configurations
- Working With CAM Configurations
- Exercise 1: Generate Toolpaths for Part Configurations

### Lesson 2: High Speed Machining (VoluMill™)
- VoluMill Overview
- Case Study: Using VoluMill
- VoluMill Settings
- VoluMill Technology Expert
- Exercise 2: Create VoluMill Toolpaths

Lesson 3: Assembly Machining
- Case Study: Assembly Machining Using a Vise
- Part Manager
- Stock Manager
- Setup Parameters
- Case Study: Assembly Machining - Programming with Subroutines
- Case Study: Assembly Machining - Multiple Parts
- Case Study: Assembly Machining Split Instance
- Import Part Data
- Split Instance
- Split Setup
- Exercise 3: Assembly Mode Machining
- Exercise 4: Assembly Mode Multi-vise Machining
- Exercise 5: Assembly Mode Split Instance

Lesson 4: 3 Plus 2 Machining
- 3 Plus 2 Machining (Indexing)
- Case Study: 3 Plus 2 - Part Machining
- Indexing
- Case Study: Assembly Machining with a Tombstone
- Exercise 6: 3 Plus 2 Machining
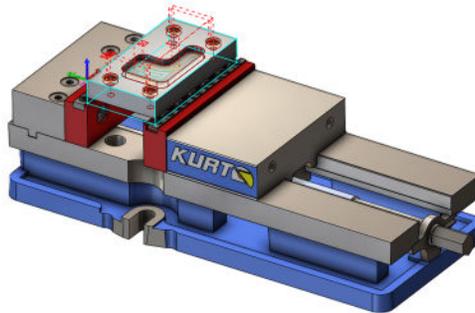
Lesson 5: Turning Basics
- SOLIDWORKS CAM Turning
- Case Study: Generate Toolpaths and NC Code
- Setup
- Chuck/Fixture
- Stock
- Machinable Features
- Case Study: Interactive Features and Operations
- New Turn Feature
- Exercise 7: Basic Turning Process
- Exercise 8: Interactive Turn Features
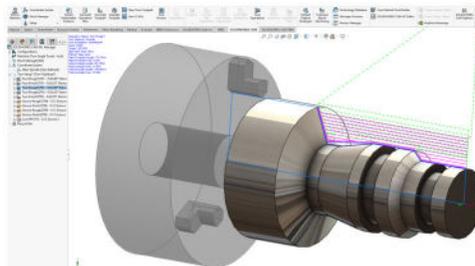
Lesson 6: Chucks, ID Features and Operations
- Section Method
- Case Study: Using Plane Section
- Double Chucking
- Case Study: Using Double Chucks
- Exercise 9: Chucks, ID and OD Features

Lesson 7: Modifying Feature and Operation Parameters
- Case Study: Custom Chuck, OD and Thread Features
- Editing Toolpaths
- Exercise 10: Modifying Features and Operations
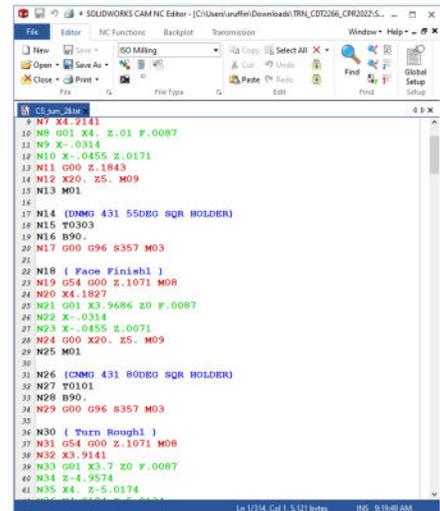
Lesson 8: Probing
- Introduction to Probing
- Probe Operation
- Case Study: Probing Operations - Part 1
- Case Study: Probing Operations - Part 2
- Case Study: Probing Operations - Part 3
- Exercise 11: Using Probing Tools

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