SOLIDWORKS CAM Professional Course

LENGTH: 2 DAYS

Prerequisites: SOLIDWORKS CAM Standard Essentials

Description: This course teaches how to use the SOLIDWORKS CAM Professional software to machine parts utilizing advanced functionality such as: CAM or SOLIDWORKS configurations, 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.

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Topics covered in this course are:

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

Lesson 2: High Speed Machining (VoluMill)
VoluMill Overview
Case Study: Using VoluMill
Exercise 2: Create VoluMill Toolpaths

Lesson 3: Assembly Machining
SOLIDWORKS CAM Assembly Mode
Case Study: Assembly Machining - Multiple Parts
Case Study: Assembly Machining Using a Vise
Case Study: Assembly Machining and Programming with Subroutines
Case Study: Assembly Machining Split Instance
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
Case Study: Assembly Machining with a Tombstone
Exercise 6: 3 Plus 2 Machining

Lesson 5: Turning Basics
SOLIDWORKS CAM Turning
Process Overview
Case Study: Generate Toolpaths and NC Code
Exercise 7: Basic Turning Process
Exercise 8: Interactive Turn Features

Lesson 6: Chucks, ID Features and Operations
Section Method
Case Study: Using Plane Section
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
Exercise 10: Modifying Features and Operations

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