

FeatureMILL3D Fundamentals Training Syllabus

Note: Students should be familiar with 2.5D machining prior to attending the 3D training.

FeatureCAM Overview

- Getting Started
 - New Part Document Wizard
- Interface Overview
 - Graphics Window
 - Steps Toolbox
 - Part View
 - Results Window
 - Toolbars
 - Selecting
 - Entity Properties
- Fundamental concepts
 - Geometry
 - Curves
 - Features
 - Tool paths and simulation techniques
 - NC code

Introduction to Solid Modeling

- Class follow along
 - Creating a New Part
 - Creating a Base Solid
 - Adding Material with Extrude
 - Cutting Material with Extrude
 - Adding Fillets
 - Shelling the Part

Modeling

- Creating Solids
 - Solids Wizard
 - Solids from Curves
 - Shape Modifiers
 - Solids from Surfaces/Primitives
 - Manufacturing
- Creating Basic Surfaces
 - Flat

Modeling Exercise

- Hairdryer
 - Handle
 - Fan Area
 - Filleting
 - Shell
 - Core and Cavity Mold

Importing Files

- Import/export Options
- Importing IGES Files

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- Importing IGES Files
 - IGES Export
 - Importing DWG and DXF Files

Manufacturing Features

- Surface Milling Feature
 - Dimensions Tab
 - 3D Strategy tab
 - Solution Sheet
- 3D Groove
- Exercise

Manufacturing Operations

- Projection Milling Methods
 - X Parallel
 - Y Parallel
 - Spiral Inward
 - Spiral outward
 - Radial Inward or outward
 - Isoline Milling Method
 - Z-Level Rough Milling Method
 - Recommended Machining Strategies
 - 3D Tools Tab
 - 3D Milling Tab
 - Manufacturing Attributes
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