

CAMWorks 3 Axis Essentials

Length: 3 Days

Prerequisites: Students attending this course are expected to have the following:

- CAMWorks 2.5 axis training (SOLIDWORKS CAM Standard Training)
- Experience with SOLIDWORKS Design Software
- Experience with CNC Machining

Description: This course is intended to teach the user how to use CAMWorks to create 3 axis toolpaths for the machining of parts created in SOLIDWORKS

Course Syllabus

Introduction

- About This Course and Manual
- Prerequisites
- Lab exercises
- Course Length
- Training files
- Technology Database for this course

Lesson 1 - CAMWorks Basics and User Interface

- 3 Axis Operations
- User Interface
- Process Overview

Lesson 2 - Multi-Surface Features

- Create 3 Axis Toolpaths with Multi-Surface Features

Lesson 3 - Avoid and Contain Areas, toolpath limits

- Contain and Avoid Areas
- Limiting toolpaths with Limits and Automatic Contain Areas

Lesson 4 - Inserting operations, Common Operation Parameters

- Types of 3 Axis Operations
- Modifying common operation parameters

Lesson 5 - Area Clearance and Z Level Operation Parameters

- Area Clearance and Flat Area operation parameters
- Z Level Operation Parameters

Lesson 6 - Pattern Project

- Working with Pattern Project Operations

Lesson 7 - Constant Stepover

- Constant Stepover Operation Parameters

Lesson 8 – Pencil Mill

- Working with a Pencil Mill Operation

Lesson 9 – Curve Project

- Working with a Curve Project Operation

Lesson 10 – 3 Axis Undercut

- 3-Axis Undercutting using a Z-Level Operation
- 3-Axis Undercutting using a Multi Axis Operation





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