cadmicro **SOLIDWORKS TRAINING**

CAMWorks Essentials - 4 & 5 Axis

PREREQUISITES	LENGTH	DESCRIPTION
▪ CAMWorks Essentials - 3 Axis Training.	2 Days	▪ This course teaches how to use the 4 & 5 Axis Milling feature in the CAMWorks software to machine complex parts, and contoured surfaces.

▶ INTRODUCTION TO CAMWORKS 4/5 AXIS PROGRAMMING

- Introduction to Course Material
- Benefits of 4/5 Axis Machining
- Types of Machines
- User Interface
- Process Overview
- Overview of the Process to Generate Multi-Axis Toolpath

▶ 3+2 AXIS PROGRAMMING, 3 TO 5 AXIS CONVERSION, AND WRAPPED FEATURES

- 3 + 2 Axis Machining
- 3 to 5 Axis Conversion
- Wrapped Toolpath

▶ MULTI SURFACE FEATURES FOR MULTI AXIS OPERATIONS

- Defining a Surface Using Part Surfaces
- Defining a Multi-Surface Feature Using a Surface Body
- Creating and Modifying a Surface Body in SOLIDWORKS for Multi Surface Features

▶ MULTI AXIS OPERATION PARAMETERS

- Multi Axis Operation Pattern Types
- Multi Axis Operation Axis Control
- Multi Axis Operation Gouge Checking

▶ MULTI AXIS OPERATIONS

- Port Machining
- Impeller Machining
- Using a Clean Core to Generate 5 Axis Toolpath
- Machining a Screw
- 5 Axis Trimming

▶ MULTI AXIS ROUGHING

- 5 Axis Roughing
- 5 Axis Roughing an Impeller Blade

▶ SWARF MACHINING

- Swarf Milling
- Swarf Milling Impeller Blade
- Swarf Milling 5 Axis Trimming

▶ 5 AXIS DRILLING

- 5 Axis Drilling

▶ 5 AXIS POST PROCESSOR CONSIDERATIONS

- 5 Axis Post Processors
- Multi-Axis Parameters