



### CAMWORKS ESSENTIALS - 3 AXIS

PREREQUISITES	LENGTH	DESCRIPTION
<ul style="list-style-type: none"> <li>■ SolidWorks CAM Standard Training.</li> </ul> <p>▶ <b>CAMWORKS BASICS AND USER INTERFACE</b></p> <ul style="list-style-type: none"> <li>■ 3 Axis Operations</li> <li>■ User Interface</li> <li>■ Process Overview</li> <li>■ Generate 3 Axis Toolpath and NC Code</li> </ul> <p>▶ <b>MULTI-SURFACE FEATURES</b></p> <ul style="list-style-type: none"> <li>■ Create 3 Axis Toolpaths with Multi Surface Features</li> </ul> <p>▶ <b>AVOID AND CONTAIN AREAS, TOOLPATH LIMITS</b></p> <ul style="list-style-type: none"> <li>■ Contain and Avoid Areas</li> <li>■ Limiting Toolpaths with Limits and Automatic Contain Areas</li> </ul> <p>▶ <b>INSERTING OPERATIONS, COMMON OPERATION PARAMETERS</b></p> <ul style="list-style-type: none"> <li>■ Types of 3-Axis Operations</li> <li>■ Modifying Common Operation Parameters</li> </ul> <p>▶ <b>AREA CLEARANCE AND Z LEVEL OPERATION PARAMETERS</b></p> <ul style="list-style-type: none"> <li>■ Area clearance and Flat Area Operation Parameters</li> <li>■ Z Level Operation Parameters</li> </ul>	<p>1.5Days</p>	<ul style="list-style-type: none"> <li>■ This course teaches how to use the 3 Axis Milling feature in the CAMWorks software to machine complex, contoured surfaces. Users will learn the multi surface features specifically for 3 axis operations and the processes needed to post process and simulate tool paths.</li> </ul> <p>▶ <b>PATTERN PROJECT</b></p> <ul style="list-style-type: none"> <li>■ Working with the Pattern Project Operations - Slice Pattern Part 1</li> <li>■ Working with the Pattern Project Operations - Slice Pattern Part 2</li> <li>■ Working with the Pattern Project Operations - Radial and Spiral Patterns</li> <li>■ Working with the Pattern Project Operations - Flowline Patterns</li> </ul> <p>▶ <b>CONSTANT STEPOVER</b></p> <ul style="list-style-type: none"> <li>■ Constant Stepmover Operation Parameters</li> </ul> <p>▶ <b>PENCIL MILL</b></p> <ul style="list-style-type: none"> <li>■ Working with a Curve Project Operation</li> </ul> <p>▶ <b>CURVE PROJECT</b></p> <ul style="list-style-type: none"> <li>■ Working with a Curve Project Operation</li> </ul> <p>▶ <b>3 AXIS UNDERCUT</b></p> <ul style="list-style-type: none"> <li>■ 3-Axis Undercutting Using a Z-Level Operation</li> <li>■ 3 Axis Undercutting Using a Multi Axis Operation</li> </ul>