

SOLIDWORKS CAM Professional

Course Outline

 DURATION/TIME 2 Days 9:00 am - 5:00 pm	 METHODOLOGY Practical hands-on with using computers, lecturing, discussions and case studies.
 PREREQUISITES Experience with the Windows™ Operating System. Attended SOLIDWORKS Essentials course	 TARGET Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer

INTRODUCTION

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.

OBJECTIVE

At the end of this program participants are expected to:

- Use SOLIDWORKS configurations as stock.
- Understand the advantages of using VoluMill and how to generate the toolpath.
- Perform machine setup and generate machining operation for assemblies.
- Describe the process for creating and post processing turning toolpaths for 3D models.
- Access probe tools and parameters.

CONTACT

IME CAD/CAM RESOURCE CENTRE SDN BHD 200301003284 (605704-H)
formerly known as IME CAD/CAM TRAINING CENTRE SDN. BHD. | A Member of IME Group of Companies - Certified ISO 9001:2015 QMS

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SOLIDWORKS CAM Professional

DAY 1

Course Outline:

Lesson 1: SOLIDWORKS CAM Configurations

- SOLIDWORKS CAM Product Review
- SOLIDWORKS CAM Configurations
- Case Study: Using Configurations

Lesson 2: High Speed Machining (Volumill™)

- Volumill Overview
- Case Study: Using Volumill

Lesson 3: Assembly Machining

- SOLIDWORKS CAM Assembly Mode
- Case Study: Assembly Machining Using a Vise
- Case Study: Assembly Machining – Programming with Subroutines
- Case Study: Assembly Machining – Multiple Parts
- Case Study: Assembly Machining 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

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Course Outline:**Lesson 5: Turning Basics**

- SOLIDWORKS CAM Turning
- Process Overview
- Case Study: Generate Toolpaths and NC Code
- Case Study: Interactive Features and Operations

Lesson 6: Chucks, ID Features and Operations

- Section Method
- Case Study: Using Plane Section
- Case Study: Using Double Chucks

Lesson 7: Modifying Feature and Operation Parameters

- Case Study: Custom Chuck, OD and Thread Features

Lesson 8: Probing

- Introduction to Probing

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