

# ADVANCED CAD/CAM MILLING

**GMI**  
GERMAN-MALAYSIAN INSTITUTE  
*Training for Advanced Technology*

## COURSE OVERVIEW

This course is designed to provide participants with an introduction to CAD/CAM 4 & 5 axis concept, system and types of hardware, software and interfaces required. Focuses on different CAM techniques, geometry, modeling, selection of appropriate cycle and tooling. Able to program using CAD/CAM software (Delcam PowerMILL), verify the tool paths and apply on selected machine tool and perform the machining process to produce quality parts or components which include Introduction to 3+2 Axis Machining and Drilling, Positional Tool Move, Five Axis Tool Alignments, Surface Projection Machining and Simulation Application.

## COURSE OBJECTIVES

Upon completion of this course, participants will be able to :

- Explain the concept and application of CAD/CAM 3+2, 4 & 5 Axis Machining.
- Apply all cutting techniques & generate CAD/CAM 3+2, 4 & 5 Axis tool paths for the 3D modeling object.
- Modify the CAM program to determine the best machining technique.
- Perform machining using the generated program.

## THE UNIQUENESS OF THIS COURSE

- Opportunity to handle machining process on the CNC machine from their cam program.
- Individual access to computer with the CAD/CAM software.
- Imported CNC machines used in training module.
- Theoretical and practical approaches.

## WHO SHOULD ATTEND

This course is designed for those with experience in CAD/CAM 2&3 axis and who are related to the operation of CNC machine, process of plastic design and Tool & Die maintenance on any industry.

Target Group: Design engineers, Tooling engineers, mould maker, polymer technologist, technicians and technical trainers.

## KEY TOPICS

- 3+2 Axis Machining and Drilling.
- Positional Tool Move.
- Five Axis Tool Alignments.
- Surface Projection Machining.
- Simulation Application.

## METHODOLOGY

Lectures, discussions, exercises & practical applications.

## COURSE DURATION

3 Days.

## PRE-REQUISITE

Fundamental in cad/cam 2 & 3 axis.

## CERTIFICATION

Certificate of attendance will be issued to those who fulfill 80% of attendance.

Minimum Participant: 6

### For further details, please contact:

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