



INVENTOR CAM Essentials



Course Duration:

16 Hours

Overview:

This training will cover topics in Computer Aided Manufacturing (CAM). This course offers knowledge in different machining methods from 2.5 axis to multi-axis CNC machine.

Learning Objectives:

After completing this session, you will be able to:

- Understand and apply machine configuration settings to optimize CNC machine performance and accuracy.
- Develop proficiency in creating and modifying toolpaths for 2D and 3D machining operations, ensuring efficient and precise material removal.
- Gain the ability to perform post-processing tasks, converting toolpath data into executable G-code for various CNC machines

Prerequisites:

It is recommended to have a knowledge in Machining and CNC operation, and Basic 3D modeling using Inventor Professional.

Acquisition:

Trainees will get an industry recognized Certificate of Completion.

Notes:

The Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the trainees.

Topics Covered:

Machine Configuration

Setting up machine parameters and specifications for accurate simulation and operation.

Stock Set-up

Defining the raw material dimensions and position for machining processes.

2D Profile

Creating and managing two-dimensional cutting paths for precise part contours.

2D Milling

Performing planar milling operations on a workpiece for flat or contoured surfaces.

Drilling

Generating toolpaths for creating holes with specific diameters and depths.

3D Machining

Executing complex three-dimensional cutting operations for detailed surface geometry.

Turning

Rotational machining processes for cylindrical parts, typically on a lathe.

Post Processing

Translating toolpath data into machine-readable code for CNC machines.

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