



Fusion 360 - Manufacturing

1-Day Curriculum for Fusion 360 Manufacturing (CNC Mill and Lathe)

Objective:

To provide participants with the skills to use Fusion 360 for CNC machining, focusing on milling and lathe operations.

Welcome and Introduction (15 minutes)

- Overview of objectives and the role of Fusion 360 in CNC machining.

Introduction to Fusion 360 CAM Environment (45 minutes)

- Navigating the CAM workspace, setup for milling and lathe.
- Hands-on exercise: Basic setup for CNC operations.

Break (10 minutes)

Toolpath Generation and Simulation (1 hour)

- Creating toolpaths for milling and turning.
- Practical exercise: Generating and simulating toolpaths.

Lunch Break (30 minutes)

Advanced CNC Machining Techniques (1 hour)

- Strategies for optimizing toolpaths, reducing cycle time.
- Hands-on exercise: Applying advanced techniques to a project.

Break (10 minutes)

Post-Processing and G-Code Generation (1 hour)

- Exporting toolpaths to G-code, post-processing for CNC machines.
- Practical exercise: Generating G-code for a CNC machine.

Wrap-Up and Q&A (20 minutes)

- Summary, open Q&A, and next steps.

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