

MFG 258 : MASTERCAM MILL

Transcript title

Mastercam Mill

Credits

4

Grading mode

Standard letter grades

Total contact hours

40

Lecture hours

40

Prerequisites

MFG 100, MFG 110 and MFG 119.

Course Description

Introduces Mastercam Mill operational basics. Includes terminology relevant to computer aided drafting/computer aided modeling work. Covers the use of the Mastercam Mill menu structure and system management.

Course learning outcomes

1. Explain concepts and demonstrate techniques associated with Mastercam software for computer numerical control mill.
2. Demonstrate fundamental machining operations performed on computer numerical control mill machining centers.
3. Demonstrate concepts of generating tool paths using the combined (existing geometry) and direct (new geometry) methods utilizing Mastercam computer assisted machining software for the computer numerical control mill.

Content outline

• Graphics environment of Mastercam computer assisted machining software for computer numerical control (CNC) mill • Computer aided drafting drawing import and printing procedures • Establishment of computer aided manufacturing parameters • Establishing tooling parameters for CNC mill • Concepts and techniques of modifying existing geometry using Mastercam computer assisted machining software for the CNC mill • Tool path generation for the CNC mill • Solid model part representations • Post processing and reverse posting procedures for CNC mill • Exporting data to the CNC mill

Required materials

No materials required.