

Mastercam

Overview



Course Length: 40 hours (*can be taken via flexible schedule in-center or remotely*)

Description: This course covers Mastercam Introduction, Interface, data entry, geometry creation, geometry editing and manipulation, solids, drafting, import/export, toolpath management, machine definition, views/planes/wcs, transformation, milling toolpaths, surface machining, lathe toolpaths, C+Y axis Mill/Turn, router toolpaths, and much more, and includes an HLE (Home Learning Edition) version of the software. This Courseware is Authorized by CNC Software, the makers of Mastercam® and Spaceclaim®. You will be able to follow along with the detailed table of contents for proper sequencing of the training material, while running Mastercam® at the same time.

When you become an expert at Mastercam, your skills are worth showing off! Every student has their progress saved and is progressively working towards a certificate in each area of expertise. These certificates are currently available.

Course Objectives/Topics

Setup the Home Learning Edition Software
Getting Started Projects - CAD
Getting Started Project - CAM
Tour the Interface
Additional Interface Functions
File Menu/Backstage
Analyze
Geometry Basics
Geometry Selection
Points, Lines, Rectangles, Rectangular Shapes
Arcs
Fillet, Chamfers and Splines
Trim / Break
Sketcher Projects
Views, Planes and WCS

Transform Functions
3D Geometry - Solids
Direct Solids - Model Prep
Drafting
Toolpath Introduction
Defining Mill Tools
Toolpath & Machining Management
Facing Toolpaths
Pocket Toolpaths
Hole Making Toolpaths
2D Mill Toolpaths
2D HST & Dynamic Toolpaths
3D Mill Roughing Toolpaths
3D Mill Finishing Toolpaths
Additional Milling Options

Multi Axis 3+1 Horizontal B-Axis
Simultaneous Multi Axis Introduction
Nesting
Lathe Introduction
Lathe Toolpaths
Miscellaneous Lathe Operations
Lathe and Mill Environment
Lathe and Mill - Turning
Lathe and Mill - Drilling
Lathe and Mill - Face Milling/Polar
Lathe with Mill - Cross Milling
Lathe and Mill - C Axis Toolpaths

Prerequisites

To ensure your success in this course, you should have basic understanding of machining processes.

Audience

Manufacturing personnel in engineering, design, management and production positions.

Please note that course material, content, structure and delivery methods are subject to change without notice.

<https://www.visible-edge.com/home/education-training/>