

## Autodesk Fusion 360 Training

### Course Outline

#### Course Description

In this course participants will learn to use the different workspaces within Fusion 360. In this 2-day course, candidates will progress from creating a basic sketch to full working assembly, which they will then learn to create renders, simulations, drawings and CAM tool paths. Following completions of this course candidates will become proficient in the creation of parts and assemblies of moderate complexity and how to document and showcase their designs.

#### Duration - 2 Days

#### Who should attend?

Novices or users with little experience and/or those who have used different 3D CAD package.

#### Learning Objectives?

To receive a thorough grounding in Autodesk Inventor enabling candidates to produce and document 3D digital Prototypes so they can excel in their fields.

#### Hands On Exercises

Representing real world industry-specific design scenarios are included

#### Getting Started

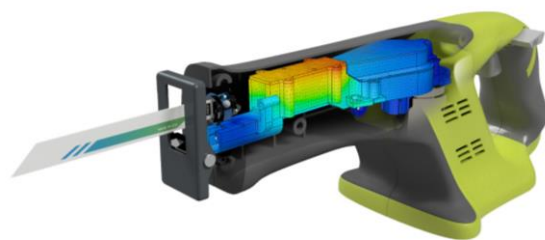
- Starting and closing Fusion360
- Fusion file types
- User interface

#### Data and Projects

- Working with versions
- Working offline
- Design History
- Version Control
- Collaboration Live Review

#### Introduction to Modelling

- 2D Sketching + Design Intent
- Dimensions, Constraints, Construction
- Creating 3D part from a 2D Sketches
- Parametric and Direct Modelling
- Advanced Modelling Techniques



## Assembly

- Difference between a body and a component
- Designing within an Assembly
- Converting Bodies to Components
- Creating Joints
- McMaster Carr Catalogue

## Freeform and Patch Workspace

- Creating and Editing a freeform body
- Using reference image
- Converting freeform body to a solid body

## CAM

- Setting up a CAM project
- Tool Libraries
- 2D and 3D Tool Paths and Simulations

## Simulation

- Simulation Types
- Linear Stress Analysis

## Drawings and View Creation

- Creating Views
- Dimensioning
- BOM

## Course Requirements –

Microsoft® Windows®7, Vista® or XP working knowledge.

Drafting and design experience is a plus.

Some working knowledge of AutoCAD is desirable but not essential

## Additional Info –

Candidates receive comprehensive courseware upon completion. Afterwards they have the option of completing the Autodesk Inventor Certification exam and gaining the industry recognised 'Autodesk Certified' status.



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