

# Fundamentals of Fusion 360 - Course Outline

Course Title: Fundamentals of Fusion 360

Duration: 10 Hours

Price: R14,900 per person

Delivery Mode: One-on-one Online Training with a Real Lecturer

Certificate: Certificate of Completion (Digital)

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## Course Description:

This course is designed for absolute beginners who want to get started with Fusion 360. It covers the fundamentals of 3D CAD modeling, enabling learners to design simple parts and understand key features of the software. This hands-on course is ideal for hobbyists, students, and professionals beginning their 3D modeling journey.

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## Learning Outcomes:

By the end of this course, students will:

- Understand the Fusion 360 user interface and navigation
- Learn the workflow of creating a basic 3D model
- Be able to sketch 2D geometry and convert it into 3D shapes
- Apply basic constraints and dimensions
- Use extrude, revolve, fillet, and shell features

- Learn how to modify existing geometry
- Understand and manage design timelines
- Create and manage assemblies
- Export and prepare files for 3D printing or CNC machining

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## Course Breakdown:

### Hour 1: Introduction to Fusion 360

- Installing and setting up Fusion 360
- Exploring the user interface
- Understanding file management and saving projects

### Hour 2: Navigation and View Tools

- Orbit, pan, zoom, and view cube
- Managing browser and document settings

### Hour 3: Creating 2D Sketches

- Sketch tools overview (line, circle, rectangle, etc.)
- Constraints and dimensions

### Hour 4: Basic 3D Features

- Extrude, revolve, sweep, and loft tools

### Hour 5: Modifying Geometry

- Fillet, chamfer, shell, and pattern tools

#### Hour 6: Sketch Editing and Constraints

- Editing sketches and using constraints effectively

#### Hour 7: Introduction to Assemblies

- Understanding components and joints
- Building simple assemblies

#### Hour 8: Working with the Timeline

- Using and editing the design timeline

#### Hour 9: Preparing for Manufacturing

- Exporting STL files
- Overview of 3D printing and CNC workflows

#### Hour 10: Project and Review

- Applying skills to a simple design project
- Q&A and course recap

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#### Company Details:

The School of IT International Pty Ltd

Enterprise No: 2019/278233/07

Tax No: 9227879237

#### Banking Details (EFT):

Bank: FNB

Account Type: Gold Business Account

Account Number: 62819004102

Branch Code: 200512

Branch Name: Somerset West

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