

## Exam Guide

### Autodesk Certification in CAD for Mechanical Design with Fusion 360 – Associate

The purpose of this guide is to prepare you for the Autodesk Certification in CAD for Mechanical Design with Fusion 360. Please review this document to understand the requirements needed to prepare for this exam. It's also important to understand that **you will not have access to the software during the examination process**, all questions are selective response and they can be answered without the software.

#### Pre-requisites

The Autodesk Certification in CAD for Mechanical Design with Fusion 360 is an associate-level certification intended for students and industry professionals who possess foundational knowledge and skills in mechanical design using Autodesk Fusion 360 and are ready to enter the job market. This Autodesk certification is industry-recognized and suitable for users who have mastered the computer-aided design (CAD) skills using Fusion 360. This exam is most suited to those who have developed these CAD skills in an academic program or professional manufacturing environment over one to two years.

Candidates who obtain this certification demonstrate mechanical design skills for entry level jobs as a CAD technician/mechanical drafter in a competitive professional environment. This exam covers common skills that can be applied across a wide range of engineering and design industries from aeronautics, aerospace, defense, automotive, mechanical, industrial design, manufacturing, medical, and energy fields.

We've summarized the core Fusion 360 skills below so you can familiarize yourself with them before taking the exam. We recommend that you are proficient in these areas, in the knowledge and abilities outlined below prior to taking this exam.

It's expected that all candidates understand how to:

- Navigate the user interface
- Identify areas of the browser and timeline
- Transition through various workspaces
- Know how to create a project
- Create basic sketches
- Use Extrude, Hole, Shell and Revolve features
- Understand dimensions and constraints
- Create construction planes and axes
- Inspect geometry with section analysis and measure
- Modify features with fillets, chamfers and patterns
- Use Press/Pull and delete for direct editing
- Create and manage assemblies
- Create assembly components from bodies
- Create empty assembly components
- Understand assembly joints, rigid groups and interference
- Create a motion study
- Create drawings with views, annotations and title blocks

- Create sweeps, lofts, combines and splits
- Create, edit and thicken basic forms

### Resources for the exam

In order to prepare for this exam, we recommend you familiarize yourself with the following content:

- [Introduction to Mechanical Engineering Design and Manufacturing](#)
- [Modeling and Design for Mechanical Engineers](#)
- [Simulation Analysis for Mechanical Engineers](#)
- [CAM and Design Manufacturing for Mechanical Engineers](#)

### Beta Exam information

**Total Time Required for exam:** 90 minutes

### Question types in the exam:

- **Multiple choice** – The purpose of a multiple-choice item is to measure a candidate’s ability with regards to a specific content topic. A multiple-choice item has a stem which asks a question and multiple possible answers.
- **Drag and drop** – This item measures a candidate’s object association and placement skills with a Drag-and-Drop questions. Test takers select and reposition answer options within a list or graphics.
- **Active screen** – This items measure’s a candidate’s familiarity with the software’s UI by using interactive images of the software.
- **Hot Area** – This item measures the ability to answer a question by clicking on “hot” areas of an exhibit. Hot Area items are essentially multiple-choice items with graphical answer choices.
- **Graphic Interpretation** – This item measures a candidate’s ability to read a graphic and interpret the information successfully.