

Autodesk Fusion 360: Introduction to Parametric Modeling



Fusion 360

The Autodesk Fusion 360 training course provides you with an understanding of the parametric design philosophy using the Autodesk® Fusion 360® software. Through a hands-on, practice-intensive curriculum, you will learn the key skills and knowledge required to design models using the Autodesk Fusion 360 software. This course will also assist you in preparing for the Autodesk Fusion 360 Certified User exam.

Topics Covered in this Autodesk Fusion 360 training course:

- Understanding the Autodesk Fusion 360 interface
- Creating, constraining, and dimensioning 2D sketches
- Creating and editing solid 3D features
- Creating and using construction features
- Creating equations and working with parameters
- Manipulating the feature history of a design
- Duplicating geometry in a design
- Placing and constraining/connecting components in a single design file
- Defining motion in a multi-component design
- Creating components and features in a multi-component design
- Creating and editing T-spline geometry
- Documenting a design in drawings
- Defining structural constraints and loads for static analysis

Prerequisites for this Autodesk Fusion 360 training course:

As an introductory course, no prior knowledge of any 3D modeling or CAD software is required. However, students do need to be experienced with the Windows operating system and a background in drafting of 3D parts is recommended.

What can you do with an Autodesk Certification?

Autodesk Inventor software jobs are often tied to your industry and the kind of certification that you've earned, so the possibilities are wide-ranging. Many positions focus on drafting, engineering, or design. You could find yourself creating a machine piece parts, building and tweaking a new consumer product, or even modeling up a design for a fighter jet.

There are two levels of certification: Autodesk Certified User (ACU) and Autodesk Certified Professional (ACP). While obtaining the ACU credential can provide you with the basic skills necessary to qualify you for work in designing and drafting across many industries, earning an ACP certification establishes you as an advanced professional.

Autodesk's ACP programs ensure that users have the advanced skills necessary to perform many industry-specific jobs. Alongside AutoCAD certification, other credentials can add even more to a worker's skill set. For instance, Revit Architecture certification can teach a worker how to incorporate Revit while working in concert with architects to draw 3D objects. Civil engineers might find that they could use a grounding in Civil 3D as well as AutoCAD software. And some jobs in fields requiring CAD software might also call for certification in Inventor. With one or more ACP certifications, a worker can really stand out on the job market!

How Much Do Design and Drafting Jobs Pay?

The U.S. Bureau of Labor Statistics reports that drafters earn a median wage of \$55,550, and it's not uncommon for a drafter to be paid as much as \$85,140 a year. There can be some variability in pay depending on the industry and the level of experience; veteran electronics and electrical drafters, mechanical drafters, and architectural and civil drafters are typically paid the most, while entry-level AutoCAD jobs tend to come with lower starting pay.

Some industries and companies put a premium on employees who are familiar with Autodesk Products, so much so that pay increases may come when an employee earns an Autodesk certification. Jobs that require mastery of Autodesk Products can be lucrative, and with a little help from MADE180 Training, they can also be well within your reach. We've developed a number of convenient classes that can help teach you what you need to know about the software, from basic knowledge to advanced operations. Sign up for one of our courses today to take advantage of hands-on learning with an expert instructor!