

# AUTODESK REVIT: FUNDAMENTALS FOR RESIDENTIAL DESIGN



## Revit

This training course teaches residential home designers how to complete a home design project using Autodesk Revit. Users will create a full 3D residential project model, including walls, doors, windows, components, floors, ceilings, roofs, and stairs. This guide takes users through the design, development, and construction document phases, including how to navigate the user interface, use the basic drawing, editing, and viewing tools, and create the final construction documents.

This course is applicable for residential drafters, designers, and anyone in the residential architecture field. The topics in this Autodesk Revit training course include the following:

- Understanding the purpose of BIM and how it is applied in Revit.
- Navigating the Revit workspace and interface.
- Working with the basic sketching and modifying tools.
- Setting up a residential house design project by linking CAD files.
- Creating levels, interior elevations, sections, and callouts.
- Modeling a 3D house with walls, floors, windows, doors, foundation, and footings.
- Creating ceiling soffits and raised ceilings.
- Adding architectural and structural columns, piers, pilasters, and augers.
- Adding component features, such as furniture, plumbing fixtures, casework, and kitchen and bathroom components.
- Applying finish carpentry, including baseboards.
- Adding soffits, fascia, gutters, frieze boards, and bird boxes.
- Modeling simple and complex roofs, including modifying roof joins and creating dormers in a house design project.
- Modeling residential stairs, balconies, and railings.
- Understanding the basics of design options by creating design option sets for a house design project.
- Setting up sheets for plotting with text, dimensions, details, tags, and schedules.
- Creating residential wall details in a house design project.
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Prerequisites for this Autodesk Revit training course:  
An understanding of architectural terminology is an asset.

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### 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!

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