



BASICS

INTRODUCTION

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Introduction to BIM and Autodesk Revit

This guide is divided into three sections: Introduction to BIM and Autodesk Revit, Design Development, and Construction Documents.

The first section provides an overview of using Building Information Modeling (BIM) with the Autodesk® Revit® software, working with the software interface, how to use the basic drawing and modify tools, and incorporating datum elements.

This section includes the following chapters:

- Chapter 1: Introduction to BIM and Autodesk Revit
- Chapter 2: Basic Sketching and Modify Tools
- Chapter 3: Starting Architectural Projects



Design Development Phase

The second section of this guide focuses on teaching you how to use the tools available in the Autodesk® Revit® software to create the building model. It also describes the viewing tools required to produce the model.

This section includes the following chapters:

- Chapter 4: Modeling Walls
- Chapter 5: Working with Doors and Windows
- Chapter 6: Working with Curtain Walls
- Chapter 7: Working with Views
- Chapter 8: Adding Components
- Chapter 9: Modeling Floors
- Chapter 10: Modeling Ceilings
- Chapter 11: Modeling Roofs
- Chapter 12: Modeling Stairs, Railings, and Ramps



Construction Documents Phase

The third section of this guide continues to teach the Autodesk® Revit® tools, focusing on tools that help you to create accurate construction documents for a design.

This section includes the following chapters:

- Chapter 13: Creating Construction Documents
- Chapter 14: Annotating Construction Documents
- Chapter 15: Adding Tags and Schedules
- Chapter 16: Creating Details

END OF FUNDAMENTALS COURSE



Introduction to Worksets

Worksharing is a workflow used in the Autodesk® Revit® software when multiple people are working on a single project model. The model is broken up into worksets. Individuals open and work on in local files that are synchronized to a central file upon saving.

For more information about establishing and using Worksets, refer to the *Autodesk Revit Collaboration Tools* guide.

Learning Objectives in this Appendix

- Review worksharing principles.
- Open a local file to make changes to your part of a project.
- Synchronize your local file with the central file, which contains changes from all the local files.



Additional Tools

There are many other tools available in the Autodesk® Revit® software that you can use when creating and using models. This appendix provides details about several tools and commands that are related to those covered in this guide.

Learning Objectives in this Appendix

- Save and use selection sets of multiple building elements.
- Edit wall joins.
- Add wall sweeps and reveals as well as roof fascias, gutters, and floor slab edges.
- Create a Curtain Wall type with an equally spaced grid pattern.
- Clarify views using Split Face, Paint, Linework, and Cut Profiles.
- Add dormers to roofs.
- Use guide grids to help place views on sheets.
- Add revision clouds, tags, and information.
- Use Path of Travel to analyze travel distances between points in the model.
- Annotate dependent views with matchlines and view references.
- Import and export schedules.
- Create basic building component schedules.
- Create repeating detail types.
- Place keynotes in a detail and add keynote legends that describe the full content of the keynotes.



Certification Exam Objectives

The following table will help you to locate the exam objectives in the chapters of the Autodesk® Revit® 2020 Architecture guides to help you prepare for the Autodesk Revit Architecture Certified Professional exam.

Exam Topic	Exam Objective	Learning Guide	Chapter & Section(s)
	Copy and monitor elements in a linked file	• Revit Collaboration Tools	• 2.3
	Use worksharing	• Revit Collaboration Tools	• 4.1, 4.2, 4.3
	Import DWG and image files	• Revit Fundamentals for Architecture	• 3.1
		• Revit Collaboration Tools	• 3.1, 3.2, 3.3
	Use Worksharing Visualization	• Revit Collaboration Tools	• 4.4
	Assess review warnings in Revit	• Revit Fundamentals for Architecture	• 12.1