



# Revit Architecture 2011

## ASCENT courseware mapping reference for Autodesk Certification Exam objectives

The following tables will help you identify which of the ASCENT Revit Architecture 2011 training guides (and in which chapter), you'll find the Autodesk exam objectives, in order to help prepare you for the Autodesk Revit Architecture 2011 Certified Associate and Certified Professional exams.

Table 1: Certified Associate Exam Objectives and ASCENT courseware mapping reference

Exam Sections	Exam Objectives	Training Guide & Chapter
<b>Modeling</b>	Create an in-place mass	Conceptual Design & Visualization: Chapter 1
	Apply an element by face	Conceptual Design & Visualization: Chapter 1
	Define floors for a mass	Conceptual Design & Visualization: Chapter 1
	Demonstrate how to generate a toposurface	Site & Structural Design: Chapter 1
	Create a building pad	Site & Structural Design: Chapter 1
	Demonstrate how to model railings	Fundamentals: Chapter 12
	Demonstrate how to use design options	Collaboration Tools: Chapter 1
	Demonstrate how to work with phases	Collaboration Tools: Chapter 1
	Edit a model element's material (door, window, furniture)	Fundamentals: Chapter 5
	Demonstrate how to create a stair with a landing	Fundamentals: Chapter 12
	Explain how to change a generic floor/ceiling/roof to a specific type	Fundamentals: Chapters 8, 10, & 11
Use appropriate tools to attach the top or base of a wall to a roof or ceiling	Fundamentals: Chapter 11	
<b>Views</b>	Define element properties to be included in a schedule	Fundamentals: Appendix B BIM Management: Chapter 1
	Organize and sort items in a schedule	Fundamentals: Appendix B BIM Management: Chapter 1
	Apply knowledge about how to create and manage legends	Fundamentals: Chapter 14
	Demonstrate how to control visual styles	Fundamentals: Chapter 1
	Explain how to move the view title independently of the view	Fundamentals: Chapter 13
Demonstrate how to manage view position on sheets	Fundamentals: Chapter 13	
<b>Elements</b>	Demonstrate how to create a stacked wall	BIM Management: Chapter 2
	Use Revit family templates	BIM Management: Chapter 1
	Explain how to make a new family type of a given model element (door, window, column)	BIM Management: Chapters 3 & 4
	Explain how to modify an element's type parameters	Fundamentals & BIM Management, varies
	Describe the difference between a hosted family from a component family (wall vs. door)	Fundamentals: Chapter 9
Explain how to create and/or modify each family category	BIM Management: Chapters 3 & 4	
<b>Documentation</b>	Discuss the benefits of a dimension string vs. a series of individual dimensions	Fundamentals: Chapter 14
	Set the colors used in a color scheme legend	Conceptual Design & Visualization: Chapter 2
	Identify different rendering settings in Revit	Conceptual Design & Visualization: Chapter 4
	Demonstrate how to place and modify detail components and repeating details	Fundamentals: Chapter 16
	Demonstrate how to create and modify filled regions	Fundamentals: Chapter 16
<b>Collaboration</b>	Demonstrate knowledge about worksharing	Fundamentals: Appendix A

## Revit Architecture 2011 Courseware

ASCENT's Revit Architecture 2011 courseware instructs users how to utilize the complex Revit Architecture software.

### Fundamentals Guide

Revit Architecture is a powerful Building Information Modeling (BIM) program that works the way Architects think. From Preliminary Design through Design Development, and into Construction Documents, the program streamlines the design process with a central 3D model. Changes made in one view update across all views and on the printable sheets.

The objective of the *Revit Architecture 2011 Fundamentals* training guide is to enable students to create full 3D architectural project models and set them up in working drawings. This training guide focuses on basic tools that the majority of users need to work with Revit Architecture.

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## ASCENT - Center for Technical Knowledge

ASCENT incorporates the best of Expert-Led (instructor-led) and technology-based training offerings to create the most effective course content, ensuring that users achieve maximum productivity from their chosen engineering tools.

ASCENT curriculum provides:

- A building block approach
- Real-world drawing projects
- Extensive illustrations and lab exercises
- Instructor guides
- Student guides containing CD's with drawing files for practice exercises
- A choice of ordering manuals pre-printed and bound, or purchasing licenses to print on demand

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Table 2: Certified Professional Exam Objectives and ASCENT courseware mapping reference

Exam Sections	Exam Objectives	Training Guide & Chapter
<b>Modeling</b>	Apply knowledge about Review Warnings in Revit	<i>Throughout all courses when they apply</i>
	Identify and describe processes for accessing the materials library, creating new materials, and adding material	BIM Management: Chapter 1
	Create an in-place mass	Conceptual Design & Visualization: Chapter 1
	Apply an element by face	Conceptual Design & Visualization: Chapter 1
	Define floors for a mass	Conceptual Design & Visualization: Chapter 1
	Demonstrate how to generate a toposurface	Site & Structural: Chapter 1
	Demonstrate how to model railings	Fundamentals: Chapter 12
	Demonstrate how to use design options	Collaboration Tools: Chapter 1
	Demonstrate how to create elements such as a floors, ceilings, or roofs	BIM Management: Chapter 12
	Demonstrate how to create a stair with a landing	Fundamentals: Chapter 12
<b>Views</b>	Demonstrate how to create a duplicate view for either a plan, section, elevation, drafting view, etc.	Fundamentals: Chapter 7
<b>Elements</b>	Create a vertically compound wall from a basic wall	BIM Management: Chapter 2
	Demonstrate how to create a stacked wall	BIM Management: Chapter 2
	Change elements within a curtain wall (grids, panels, mullions)	Fundamentals: Chapter 6
<b>Documentation</b>	Demonstrate how to tag elements (doors, windows, etc.) by category	Fundamentals: Chapter 15
	Identify rendering settings in Revit	Conceptual Design & Visualization: Chapter 4
	Explain how to control which lights render	Conceptual Design & Visualization: Chapter 4
<b>Collaboration</b>	Demonstrate how to copy and monitor elements in a linked file	Site & Structural: Chapter 2
	Apply interference checking in Revit	Site & Structural, Chapter 2
	Use project base points and survey points	Site & Structural, Chapter 1

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