



ASCENT courseware mapping reference for Autodesk Certification Exam objectives

The following tables will help you identify which of the ASCENT Inventor 2012 training guides (and in which chapter), you'll find the Autodesk exam objectives in order to help prepare you for the Autodesk Inventor 2012 Certified Associate and Certified Professional exams.

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

Exam Sections	Exam Objectives	Training Guide & Chapter
Advanced Modeling	Create and constrain sketch blocks	Adv Part Appendix B, Adv Assembly Chapter 5
	Use iLogic	Adv Part Chapter 6, Adv Assembly Chapter 14
	Emboss text and a profile	Adv Part Appendix A
Assembly Modeling	Apply and use assembly constraints	Fundamentals Chapter 16
	Create a level of detail	Adv Assembly Chapter 9
	Describe and use Shrinkwrap	Adv Assembly Chapter 9
	Modify a bill of materials	Fundamentals Chapter 25
	Find minimum distance between parts and components	Fundamentals Chapter 18
Drawing	Create and edit dimensions in a drawing	Fundamentals Chapter 24
	Edit a section view	Fundamentals Chapter 23
	Modify a parts list	Fundamentals Chapter 24
	Edit a base and projected views	Fundamentals Chapter 23
Part Modeling	Create a pattern of features	Fundamentals Chapter 14
	Create a shell feature	Fundamentals Chapter 9
	Create extrude features	Fundamentals Chapters 2 & 5
	Create fillet features	Fundamentals Chapter 6
	Create hole features	Fundamentals Chapter 6
	Create revolve features	Fundamentals Chapters 2 & 5
	Create work features	Fundamentals Chapter 7
	Use the Project Geometry and Project Cut Edges commands	Fundamentals Chapters 2,3, & 4
Presentation Files	Animate a presentation file	Fundamentals Chapter 19
Sheet Metal	Annotate a sheet metal part in a drawing	Sheet Metal Chapter 12
	Create and edit a sheet metal flat pattern	Sheet Metal Chapter 9
	Describe sheet metal features	Sheet Metal Chapters 1-8, 10, & 11
Sketching	Create dynamic input dimensions	Fundamentals Chapter 2
	Use sketch constraints	Fundamentals Chapters 2 & 3
User Interface	Identify how to use visual styles to control the appearance of a model	Fundamentals Chapter 1, Adv Part Chapter 1

AUTODESK INVENTOR 2012 COURSEWARE

Autodesk Inventor mechanical design software takes engineers beyond 3D to Digital Prototyping by enabling them to design, visualize, and simulate products before they are ever built.

ASCENT offers the following 2012 *Autodesk Official Training Guides* to teach Inventor users how to utilize this complex software:

- ▶ Inventor LT 2012 Fundamentals
- ▶ Inventor 2012 Advanced Part Modeling
- ▶ Inventor 2012 Advanced Assembly Modeling
- ▶ Inventor 2012 Sheet Metal Design

Autodesk
Official Training Guide

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

Exam Sections	Exam Objectives	Training Guide & Chapter
Advanced Modeling	Create a 3D path using the Intersection Curve and the Project to Surface commands	Adv Part Chapter 3
	Create a loft feature	Fundamentals Chapter 13, Adv Part Chapter 5
	Create a multi-body part	Adv Part Chapter 2, Adv Assembly Chapter 4
	Create a part using surfaces	Adv Part Chapters 8, 9, & 10
	Create a sweep feature	Fundamentals Chapter 12, Adv Part Chapter 5
	Create an iPart	Adv Part Chapter 12
Assembly Modeling	Apply and use assembly constraints	Fundamentals Chapter 16
	Create a level of detail	Adv Assembly Chapter 9
	Create a part in the context of an assembly	Fundamentals Chapter 21
	Create a positional representation	Adv Assembly Chapter 8
	Create components using the Design Accelerator commands	Adv Assembly Chapter 10
	Use the frame generator command	Adv Assembly Chapter 15
Drawing	Edit a section view	Fundamentals Chapter 23
	Modify a style in a drawing	Fundamentals Chapter 24, Adv Part Chapter 1
	Edit a hole table	Fundamentals Chapter 26
Part Modeling	Create extrude features	Fundamentals Chapters 2 & 5
	Create hole features	Fundamentals Chapter 6
Project Files	Control a project file	Fundamentals Chapter 22
Sheet Metal	Create flanges	Sheet Metal Chapters 2, 3, & 4
Weldments	Create a weldment	Adv Assembly Chapter 17

AUTODESK OFFICIAL TRAINING GUIDES from ASCENT






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 Offers:

- A building block approach
- Real-world drawing projects
- Extensive illustrations and lab exercises
- Drawing files to complete practice exercises
- Choice of ordering printed Student Guides, PDF eBooks, or annual licenses to print on-demand
- Instructor Tools in PDF format for those teaching the course



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