ASCENT®
CENTER FOR TECHNICAL KNOWLEDGE

Inventor 2011

ASCENT courseware mapping reference for Autodesk Certification Exam objectives

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

Inventor 2011 Courseware

ASCENT's Inventor 2011 courseware instructs users in best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum.

Introduction to Solid Modeling

Acquire the knowledge to complete the process of designing models, from conceptual sketching through to solid modeling, assembly design, and drawing production.

Advanced Part Modeling

This is the second in a series of courses on Inventor from ASCENT. The goal of this training guide is to build on the skills acquired in the Inventor Introduction to Solid Modeling course by taking students to a higher level of productivity when designing part models in Inventor. In addition, students will learn about various drawing tools.

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

Exam Sections	Exam Objectives	Training Guide & Chapter
User Interface	Describe how to use the heads up display (HUD) to create and edit features	Introduction to Solid Modeling: *throughout book*
	Identify how to use visual styles to control the appearance of a model	Introduction to Solid Modeling: Chapter 1 and Advanced Part Modeling: Chapter 1
Project Files	Describe the options for controlling a project file	Introduction to Solid Modeling: Chapter 21
Sketching	Recall the function of each sketch constraint	Introduction to Solid Modeling: Chapters 2 & 3
	Demonstrate how to create dynamic input dimensions	Introduction to Solid Modeling: Chapter 2
Part Modeling	Create extrude features	Introduction to Solid Modeling: Chapters 2 & 5
	Create fillet features	Introduction to Solid Modeling: Chapter 6
	Create hole features	Introduction to Solid Modeling: Chapter 6
	Create a pattern of features	Introduction to Solid Modeling: Chapter 13
	Describe how to use the Project Geometry and Project Cut Edges commands	Introduction to Solid Modeling: Chapters 4 & 20
	Create revolve features	Introduction to Solid Modeling: Chapters 2 & 5
	Create a shell feature	Introduction to Solid Modeling: Chapter 9
	Create work features and a UCS	Introduction to Solid Modeling: Chapter 7 and Advanced Part Modeling: Chapter 4
Drawing	Explain how to edit a base and projected views	Introduction to Solid Modeling: Chapter 22
	Describe how to create a slice view in a drawing	Introduction to Solid Modeling: Chapter 22
	Demonstrate how to create and edit dimensions in a drawing	Introduction to Solid Modeling: Chapter 23
	Describe how to edit a hole table	Introduction to Solid Modeling: Chapter 25
	Describe how to modify a parts list	Introduction to Solid Modeling: Chapter 23
	Demonstrate How to edit a section view	Introduction to Solid Modeling: Chapter 22
Assembly Modeling	Describe the process of finding the minimum distance between parts and components	Introduction to Solid Modeling: Chapter 17
	Describe the function of the different assembly constraints	Introduction to Solid Modeling: Chapter 15
	Describe how to modify a bill of materials	Introduction to Solid Modeling: Chapter 24
	Explain the method of creating a frame using the frame generator command	Advanced Part Modeling: Chapter TBD
	Identify uses for surfaces in the modeling process	Advanced Part Modeling: Chapter 8
Presentation Files	Describe how to animate a presentation file	Introduction to Solid Modeling: Chapter 18
Advanced Modeling	Describe the procress to emboss text and a profile	Advanced Part Modeling: Appendix A
	Create and constrain sketch blocks	Advanced Part Modeling: Appendix B and Advanced Assembly Modeling: TBD
	Describe the process of creating an iAssembly	Advanced Assembly Modeling: TBD
	Describe the process to create an iPart	Advanced Part Modeling: Chapter 12
Sheet Metal	Demonstrate how to create and edit a sheet metal flat pattern	Sheet Metal Design: Chapter TBD
	Describe the different types of sheet metal flanges that Inventor can create	Sheet Metal Design: Chapter TBD
	Demonstrate how to annotate a sheet metal part in a drawing	Sheet Metal Design: Chapter TBD

Where TBD is noted, this indicates the book is not yet published. Publication is expected in late Spring 2010.

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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

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

Exam Sections	Exam Objectives	Training Guide & Chapter
Part Modeling	Create extrude features	Introduction to Solid Modeling: Chapters 2 & 5
	Create hole features	Introduction to Solid Modeling: Chapter 6
Drawing	Demonstrate how to edit a section view	Introduction to Solid Modeling: Chapter 22
	Create a slice view in a drawing	Introduction to Solid Modeling: Chapter 22
	Demonstrate how to modify a style in a drawing	Introduction to Solid Modeling: Chapter 22 and Advanced Part Modeling: Chapter 1
Assembly Modeling	Apply assembly constraints	Introduction to Solid Modeling: Chapter 15
	Create a part in the context of an assembly	Introduction to Solid Modeling: Chapter 20
	Create components using the Design Accelerator commands	Advanced Assembly Modeling: TBD
	Create and edit a frame using the Frame Generator command	Advanced Assembly Modeling: TBD
	Create a level of detail	Advanced Assembly Modeling: TBD
	Create a positional representation	Advanced Assembly Modeling: TBD
Advanced Modeling	Create a 3D path using the Intersection Curve and the Project to Surface commands	Advanced Assembly Modeling: Chapter 3
	Create a multi-body part	Advanced Part Modeling: Chapter 2 Advanced Assembly Modeling: Chapter TBD
	Create a part using surfaces	Advanced Part Modeling: Chapters 8 & 9
	Create an iPart	Advanced Part Modeling: Chapter 12
	Create a loft feature	Introduction to Solid Modeling: Chapter 12 and Advanced Part Modeling: Chapter 5
	Create plastic part features	*Not covered in ASCENT material*
	Create a sweep feature	Introduction to Solid Modeling: Chapter 11 and Advanced Part Modeling: Chapter 5
Sheet Metal	Create flanges using the Flange, Contour Flange and Lofted Flange commands	Sheet Metal Design: Chapter TBD
Weldments	Create a weldment	Advanced Assembly Modeling: Chapter TBD

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