

ASCENT's Civil 3D 2011 Courseware

Civil 3D 2011 Fundamentals

With ASCENT's Civil 3D 2011 Fundamentals courseware, learn techniques enabling you to organize project data, work with points, create and analyze surfaces, model road corridors, create parcel layouts, perform grading and volume calculation tasks, and lay out pipe networks.

Civil 3D 2011 For Surveyors

This in-depth courseware is for surveyors and survey technicians that do not necessarily need all of the functionality that is covered in AutoCAD Civil 3D Fundamentals. This guide equips the surveyor with the basic knowledge needed to use Civil 3D efficiently in a typical daily workflow.

Students learn how to import the converted field equipment survey data into a standardized environment in Civil 3D and to use the automation tools to create an Existing Condition Plan. Data collection, least square analysis, and traverses are also covered. Other topics that help in increasing efficiency include styles, proper AutoCAD drafting techniques, the methodology needed to create linework effectively for variables used in defining symbology, surfaces, categorizing points, and importing imagery.

Civil 3D 2011

ASCENT courseware mapping reference for Autodesk Certification Exam objectives

The following tables will help you identify where in the ASCENT Civil 3D 2011 Fundamentals training guide you'll find the objectives for the Autodesk Civil 3D 2011 **Certified Associate** and **Certified Professional** exams.

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

Exam Sections	Exam Objectives	ASCENT Civil 3D Guide
User Interface	Choose the correct user interface components to achieve a specified goal	Module 1.3
	Choose functions on the Prospector tab to achieve a specified goal	Module 1.4
	Choose functions on the Settings tab to achieve a specified result	Module 1.4
Styles	Choose object styles to achieve a specified result	Module 3.6
	Choose label styles that achieve a specified result	Module 3.6
Lines & Curves	Use the line/curve commands to create common civil/survey features	Modules 3.4, 3.17, 3.19
	Use the transparent commands to create common civil/survey features	Modules 3.10 and 7.5
Points	Use the point creation commands to create points according to a specified result	Module 3.9
	Use the point data import commands to create points by importing data	Module 3.12
Surfaces	Use the proper commands/steps to create surfaces	Module 4
	Use the proper commands/steps to edit a surface according to a specified result	Module 4.7
	Choose the appropriate styles or settings to display surface information to achieve a specified result	Module 4.6 and 4.12
Parcels	Use the correct commands/steps to create parcels using the parcel layout tools	Module 2.2
	Choose the correct parcel styles to display parcels according to a specified result	Module 2.1
	Use the correct commands and styles to achieve a specified parcel annotation result	Module 2.6
Alignments	Use the correct commands/steps to create alignments in a drawing	Module 5
Profiles & Profile Views	Use the correct commands/steps to create a surface profile	Module 7.2
	Use the correct commands/steps to create a layout profile	Module 7.4 and 7.5
	Use the correct commands/steps to create a profile view	Module 7.3
Corridors	Choose the proper commands/steps to create a corridor according to a specified result	Modules 8.1, 8.2, 8.3
	Use the appropriate commands/steps to derive specific information/data from a corridor	Module 8.4
	Use the appropriate commands/steps to create an intersection	Module 8.4
Sections & Section Views	Use the appropriate commands/settings to create sections and section views	Module 11
Pipe Networks	Use the appropriate commands/steps to create pipe networks	Modules 10.1, 10.2, 10.3, 10.4
Grading	Use the appropriate commands/steps to create a grading model using gradings	Module 9.2
	Use the appropriate commands/steps to create a grading model using feature lines	Module 9.1
Managing and Sharing Data	Use data shortcuts to share/manage data	Modules 6.1, 6.2, 6.3 and Appendix A.1
Plan Production	Use the proper commands/steps to generate a sheet set using plan production	Module 12
Survey	Use description keys to control the display of points created from survey data	Module 3.10
	Use figure prefixes to control the display of linework generated from survey data	Modules 3.17, 3.18, 3.19

ASCENT courseware mapping reference for Autodesk Certification Exam objectives

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 Tools
- 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	ASCENT Civil 3D Guide
Styles	Create object styles that achieve a specified result	Module 3.6
	Create label styles that achieve a specified result	Module 3.6
Points	Organize points and control their display using point groups	Module 3.13
Surfaces	Create a surface by assembling fundamental data	Modules 4.3 and 4.4
	Set up the appropriate styles and analyses to achieve specific surface display results	Modules 4.6 and 4.12
Parcels	Design a parcel layout based on given information and design requirements	Module 2.3
Alignments	Design a geometric layout by properly applying various alignment functionality	Module 5.3
Profiles & Profile Views	Design a profile according to given information and design requirements	Modules 7.4 and 7.5
	Create a profile view style that achieves a specified result	Not covered in ASCENT material
Corridors	Design a corridor based on given information and design requirements	Modules 8.1, 8.2, 8.3
	Create specific corridor data/information according to a specified result	Modules 8.4 and 8.5
	Design an intersection based on given information and design requirements	Module 8.4
Sections & Section Views	Analyze section views to obtain or derive information about a design	Module 11
Pipe Networks	Design a pipe network according to given information and design requirements	Modules 10.1, 10.2, 10.3, 10.4
Grading	Design a site grading model based on given information and design requirements	Module 9
Managing and Sharing Data	Compose a data sharing setup based on given requirements	Modules 6.1, 6.2, 6.3 and Appendix A.1
Plan Production	Create a sheet set according to given information and a specified result	Module 12
Survey	Create a topographic/boundary drawing from field data	Modules 3.12 - 3.19, 4.4 and 4.5