

Autodesk Official Training Guide
Essentials

AutoCAD®

Map 3D 2010

Learning AutoCAD® Map 3D 2010

Using hands-on exercises, learn how to create, manage, edit, and analyze mapping geospatial data.

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Published by:
Autodesk, Inc.
111 McInnis Parkway
San Rafael, CA 94903, USA

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Acknowledgements

The Autodesk Official Training Guide team wishes to thank everyone who participated in the development of this project, with special acknowledgement to the authoring contributions and subject matter expertise of Gordon Lockett.

Gordon Lockett is the founder and president of Arrow Geomatics Inc, a GIS consulting, training, and development company. Oracle Spatial and Autodesk geospatial product integration is the main focus of Gordon's consulting and training efforts. Leveraging his experience as an Autodesk Certified Instructor, Autodesk University presenter, and consultant, he continues to develop guides for AutoCAD® Map 3D and Autodesk MapGuide® Enterprise.

Introduction

Welcome to the *Learning AutoCAD Map 3D 2010* Autodesk Official Training Guide, a training guide for use in Authorized Training Center (ATC®) locations, corporate training settings, and other classroom settings.

This guide primarily focuses on the drawing-based features within AutoCAD® Map 3D. Geospatial features and functionality are covered in a complementary guide, *AutoCAD Map 3D 2010 for Geospatial* Autodesk Official Training Guide, that is recommended once you have completed this guide.

Although this guide is designed for instructor-led courses, you can also use it for self-paced learning. The guide encourages self-learning through the use of the AutoCAD Map 3D 2010 Help system.

This introduction covers the following topics:

- Guide objectives
- Prerequisites
- Using this guide
- CD contents
- Installing the exercise data files from the CD
- Notes, tips, and warnings
- Feedback

This guide is complementary to the software documentation. For detailed explanations of features and functionality, refer to the Help in the software.

Objectives

After completing this guide, you will be able to:

- Describe the Autodesk Map 3D user interface.
- Create and edit geometry.
- Link and manage drawing-based attribute data.
- Use object classification.
- Import and export drawing-based data.
- Work with raster images.
- Work with source drawings.
- Use source drawing queries.
- Stylize drawings.
- Use topology and spatial analysis.
- Plot maps.
- Perform typical workflows with drawings and associated object data and link templates.

Prerequisites

This guide is designed for the student who is new to AutoCAD Map 3D.

It is recommended that you have a working knowledge of:

Creating, opening, and saving drawing files, changing the display of a drawing by zooming and panning, displaying and docking toolbars, saving and restoring named views, using object snaps, and managing layers and controlling layer visibility.

Microsoft® Windows® XP or Microsoft® Windows® Vista.

Using This Guide

These lessons are independent of each other. However, it is recommended that you complete them in the order that they are presented unless you are familiar with the concepts and functionality described in each lesson.

Each chapter contains:

Lessons

Usually two or more lessons.

Exercises

Practical, real-world examples that allow you to use the functionality you have just learned. Each exercise contains step-by-step procedures and graphics to help you complete it successfully.

CD Contents

The CD attached to the back cover of this book contains all the data and drawings you need to complete the exercises in this guide.

Installing the Exercise Data Files from the CD

To install the data files for the exercises:

1. Insert the guide CD.
2. If the install does not begin automatically, double-click the self-extracting archive *setup.exe*.

Unless you specify a different folder, the exercise files are installed in the following folder:

C:\Autodesk Learning\Map 3D 2010\Essentials

After you install the data from the CD, this folder contains all the files necessary to complete each exercise in this guide.

Notes, Tips, and Warnings

Throughout this guide, notes, tips, and warnings are called out for special attention.



Notes contain guidelines, constraints, and other explanatory information.



Tips provide information to enhance your productivity.



Warnings provide information about actions that might result in the loss of data, system failures, or other serious consequences.

Feedback

We always welcome feedback on Autodesk Official Training Guides. After completing this guide, if you have suggestions for improvements or if you want to report an error in the book or on the CD, please send your comments to learningtools@autodesk.com.

