AutoCAD Land Desktop 2009 Tutorials

Tutorials

To access the Land Desktop tutorials, click AutoCAD Land Desktop Tutorials on the Help menu.
ActiveX Automation and VBA Help

**ActiveX and VBA Reference.** Provides a reference to the ActiveX object model and its associated interface components.

**AutoCAD Land Desktop 2009 Help**

Describes the concept of exposing objects through an ActiveX interface and programming those objects using various languages.
The civil engineering tools described in this chapter are available when you install AutoCAD® Civil 3D® Land Desktop Companion 2009. The stand-alone installation of AutoCAD Land Desktop does not include these features.
Surveying Tools

The surveying tools described in this chapter are available when you install AutoCAD® Civil 3D® Land Desktop Companion 2009. The stand-alone installation of AutoCAD Land Desktop does not include these features.
The installation and licensing guides provide information about installing and activating AutoCAD Land Desktop on a workstation, as well as licensing and deploying AutoCAD Land Desktop on a network.

Locate information by using the tabs on the left, or go directly to a topic by clicking the links below.

**Installation Guides**

➤ **Stand-Alone Installation Guide**

Provides instructions for installing and authorizing AutoCAD Land Desktop on an individual computer.

➤ **Network Administrator's Guide**

Provides network deployment information for AutoCAD Land Desktop.

**Licensing Guides**

➤ **Stand-Alone Licensing Guide**

Provides information and instructions for managing a stand-alone license on a workstation.

➤ **Network Licensing Guide**

Provides information about installing the Network License Manager on a network.

➤ **Licensing Borrowing Guide**

Provides instructions for borrowing an AutoCAD-based product license from a network.
Please send us your comment about this page
AutoCAD Land Desktop Stand-Alone Installation Guide

The *Stand-Alone Installation Guide* provides instructions for installing and authorizing AutoCAD Land Desktop on an individual computer.

Locate information by using the tabs on the left, or go directly to a topic by clicking a link below.

- **Quick Start to Stand-Alone Installation**
- **Move to AutoCAD Land Desktop 2008 from a Previous or Same Release**
- **Install Autodesk Products for an Individual User**
- **Installation Troubleshooting**

Please send us your comment about this page
The *Network Administrator's Guide* provides network deployment information for AutoCAD Land Desktop, including step-by-step instructions about how to prepare for deployment, set up a license server, and set up and distribute the program.

Locate information by using the tabs on the left, or go directly to a topic by clicking a link below.

- [Quick Start to Network Administration](#)
- [System Requirements](#)
- [Deploy Autodesk Civil 3D](#)
- [Advertise a Deployment Using MSI](#)
- [Use Scripts to Deploy Autodesk Civil 3D](#)
- [Use Group Policies to Install a Deployment](#)
- [Use Microsoft Systems Management Server to Install a Deployment](#)
- [Distribute the Product Using Imaging Software](#)
- [Glossary](#)
The Stand-Alone Licensing Guide provides information and instructions for managing an Autodesk stand-alone license on a workstation.

Locate information by using the tabs on the left, or go directly to a topic by clicking the links below.

➤ Autodesk Stand-Alone Licensing

➤ Manage Your Stand-Alone License

➤ Troubleshoot a License Error

Please send us your comment about this page
The *Network Licensing Guide* provides information about installing the Network License Manager on a network.

Locate information by using the tabs on the left, or go directly to a topic by clicking a link below.

- [Quick Start to Autodesk Network Licensing](#)
- [Introduction to Autodesk Network Licensing](#)
- [Plan Your Network Licensing](#)
- [Network Licensing Tools](#)

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License Borrowing Guide
The License Borrowing Guide provides instructions for borrowing an AutoCAD license from a network.

- License Borrowing
## AutoCAD Map 3D Learning Resources

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Need help fast?

- Use the three tabs in the upper-left to navigate through the Help system.
- Post questions on Autodesk discussion groups.
- Access additional PDF documents on your computer.
- Open the Learning Resources web page for additional help, including the support database, tips, and tutorials.
AutoCAD 2009 Help

User's Guide
The User's Guide explains AutoCAD concepts, provides step-by-step procedures and associated commands, and includes a glossary with definitions of AutoCAD terms. To browse the User's Guide, use the Contents tab on the left side of the Help window.

- Get Information
- The User Interface
- Start, Organize, and Save a Drawing
- Control the Drawing Views
- Choose a Work Process Before You Begin
- Create and Modify Objects
- Work with 3D Models
- Annotate Drawings
- Plot and Publish Drawings
- Share Data Between Drawings and Applications
- Work with Other People and Organizations
- Create Realistic Images and Graphics
- Glossary
Command Reference

The Command Reference provides a comprehensive reference to all AutoCAD commands and system variables. To browse the Command Reference, use the Contents tab on the left side of the Help window.

- Commands
- Command Modifiers
- System Variables
- Utilities
Driver and Peripheral Guide
The Driver and Peripheral Guide provides information about plotters and plotter configuration, pointing devices, AutoSpool, and external database configuration. To browse the Driver and Peripheral Guide, use the Contents tab on the left side of the Help window.

- Pointing Devices
- Use Plotters and Printers
- Set Device-Specific Configurations
- Configure for File Output
- Configure External Databases
- Driver Custom Properties Reference
Installed drivers (WinHelp files):

- **DXB**

- **DWF**

- **HPGL/2**

- **HPGL**
- System

- Raster
- PostScript
Installed drivers (WinHelp files):

- CalComp
- Oce
- Xerox
- XES Synergix 8825/8830/8855
The Customization Guide tells experienced users how to customize AutoCAD. To browse the Customization Guide, use the Contents tab on the left side of the Help window.

- **Basic Customization**
- **Custom Linetypes**
- **Custom Hatch Patterns**
- **Customize the User Interface**
- **DIESEL**
- **Slides and Command Scripts**
- **Introduction to Programming Interfaces**
- **Shapes and Shape Fonts**

**Help Files**

- **User's Guide**
- **Command Reference**
- **Driver and Peripheral Guide**
- **Installation and Licensing Guides**
- **Customization Guide**
  - AutoLISP, Visual LISP, and DXF
  - ActiveX Automation and VBA

**Resources on the Web**
AutoLISP, Visual LISP, and DXF
You can access the AutoLISP, Visual LISP, and DXF documentation by choosing Developer Help from the AutoCAD Help menu.

- **AutoLISP Reference.** Provides a comprehensive reference for AutoLISP, a full-featured, interpretive programming language that you can use to call AutoCAD commands, system variables, and dialog boxes.

- **AutoLISP Developer's Guide.** Provides information for using the Visual LISP interactive development environment to develop and test AutoLISP programs. Also describes how to use the AutoLISP extensions provided with Visual LISP to create ActiveX automations.

- **AutoLISP Tutorial.** Provides step-by-step lessons that teach you how to use Visual LISP to develop an AutoLISP application.

- **DXF Reference.** Provides a comprehensive reference to the DXF file format.
ActiveX Automation and VBA
You can access the ActiveX Automation and VBA documentation by choosing Developer Help from the AutoCAD Help menu.

- **ActiveX and VBA Developer's Guide.** Explains how to use ActiveX and VBA to develop an application to customize AutoCAD. Includes sample code and step-by-step procedures.
- **ActiveX and VBA Reference.** Provides a reference to the ActiveX object model and its associated interface components.
- **Sheet Set Objects Reference.** Provides a reference to the objects available for Sheet Set Manager.
- **Connectivity Automation Reference.** Provides a reference to the Connectivity Automation object model and its associated interface components.
AutoCAD Map 3D User Interface Overview

1. **The Menu Browser**
   Browse the drop-down menus, or enter part of a command name to search for the command you want. You can also browse for recent documents, currently open documents, and commands recently executed from the menu browser.

2. **Quick Access Toolbar**
   Get easy access to commands you use frequently. By default, the Quick Access Toolbar contains icons for New, Open, Save, Plot, Undo, and Redo. Add commands to the Quick Access Toolbar using the shortcut menus on the menu browser and toolbars.

3. **InfoCenter**
   Type a question and click the magnifying glass to search multiple sources, including the User's Guide, Reference Guide, and Knowledge Base. You can also receive information from RSS feeds to which you subscribe or feeds published by your CAD Manager.

4. **Status Bar**
   View the coordinate values of your cursor, change vertical exaggeration, view

5. **Command Line**
   You can run many commands by typing the command name and

6. **View Scale**
   View and set the scale ranges for your styles. You can link view scales to
current warnings, choose model and layout tabs, lock the toolbar positions, toggle the display of tools to view more of your drawing, and view or change other settings.

pressing ENTER. When you start typing, a tooltip appears near the cursor to display the command prompts. To display the command line window, click the Command button.

zoom levels by clicking the open lock icon. When the lock is closed, your defined styles display as you adjust the zoom or select a scale.
User's Guide
Information by Task

Setting Up
- Set up AutoCAD Map 3D
- Set up your map file
- Set options

Creating and Editing Data
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- Work with drawing objects
- Enter coordinate geometry
- Edit attribute data and object data
- Digitize objects

Bringing in FDO data (SHP, SDF, ArcSDE, Oracle, SQL Server, WFS, WMS)
- Bring in drawing objects (DWG)
- Add rasters and surfaces
- Join data to FDO features
- Add attributes to DWG objects
- Import data (SHP, SDF, MIF/MID, GML, TAB, DGN, SDTS, VML, VPF)
- Use open source FDO providers
- Bring in AutoCAD Civil 3D data

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- Use AutoCAD text

Analyzing Data
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- Create themed maps
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- Analyze raster-based surfaces
- Find, filter, and select

Quick Links

Learning Resources
A quick view of which resources are best for you.

Workflow Guide
An overview of the steps to perform common GIS tasks.

GIS Skills for Engineers
Animations to help you get the most from AutoCAD Map 3D.

Best Practices
The concepts behind CAD-GIS integration.

New Features Workshop
See what’s new for this release.

Tutorials
A step-by-step introduction to concepts.

User's Guide PDF
Print out the User's Guide.

Additional Information

Readme
Sample Data
Expression Evaluator
Programming Interfaces
AutoCAD Help

Resources on the Web

AutoCAD Map 3D
Product Support
Training
Developer Center
Managing Your Data
- Overview of feature classes, data stores, and schemas
- Work with feature sources
- Work with schemas
- Migrate GIS data
- Migrate DWG data to GIS

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( viewing data for features )
  • Getting information about features
  • Exporting data from the Data Table
  • Editing feature data
  • Joining tables

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  • Setting up object classification
  • Using object classification
  • Finding object by classification
  • Theming objects based on classification

Object Data
  • Setting up object data
  • Entering and editing object data
  • Finding object by object data
  • Theming objects based on object data

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Objects
  • Working with polygon objects

Printing
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  - Print out the User's Guide.

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- Sample Data
- Expression Evaluator
- Programming Interfaces
- AutoCAD Help

Resources on the Web
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- Training
- Developer Center
- Entering points using coordinate geometry
- Digitizing objects
- Creating and editing features
- Editing and saving objects in attached drawings
- Using map editing tools
- Entering and editing object data
- Working with polygon objects
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- Importing
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- Publishing maps
- Editing metadata

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