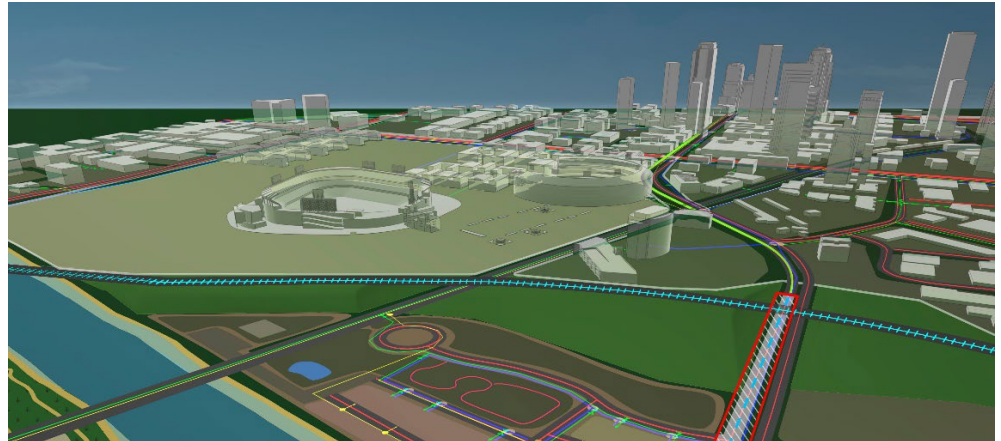# AutoCAD Map 3D Essentials
Training course outline

AutoCAD Map 3D is the industry leading spatial data creation software.

AutoCAD Map 3D Essentials training provides a thorough grounding in the application for beginners. On completion you will be able to use AutoCAD Map 3D to create and manage mapping data.

Course summary
Teaches:
- The fundamentals of AutoCAD Map 3D, and techniques for creating, managing and analysing mapping data.
- The geospatial features and functions available to create, manage and analyse geospatial data.

Duration
2 days.

Who should attend?
Newcomers to AutoCAD Map 3D and novice AutoCAD Map 3D users who want a thorough grounding in the application and its key features.

Prerequisites
Delegates should be familiar with the fundamentals of AutoCAD for 2D design, as taught in our AutoCAD Essentials course.

In-class or live online
You can attend course in-person at any of our centres, or participate online from your place of work or home.

Whilst attending training at our centres, delegates have the use of a computer running licensed AutoCAD Map 3D software to practice the techniques taught.

To read about our approach to online training, see armada.co.uk/onlinetraining.

General information
Armada is an Autodesk authorised Training Centre (ATC); our *AutoCAD Map 3D Essentials* course is accredited by Autodesk.

AutoCAD Map 3D courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of infrastructure planning and GIS.

AutoCAD Map 3D Essentials training is arranged *on-request*, i.e. one-to-one training or a 'closed course' for your group. This means that the training can be:
- Provided when it suits you.
- Adapted to reflect any existing knowledge you have and the work you're going to be doing.

Course fees can be paid by card or bank transfer. We accept purchase orders from UK-registered companies and public sector organisations.

If you're self-funding your training, you can pay in staged payments, interest-free, over 12 months.

Course materials and certificate
Delegates receive:
- A comprehensive AutoCAD Map 3D training guide.
- An e-certificate from Autodesk confirming attendance on an accredited *AutoCAD Map 3D Essentials* course.

After course support
Following AutoCAD Map 3D training, you're entitled to 30 days' email support from your trainer.

Further information, prices & dates
See armada.co.uk/course/m3d.

Course syllabus
See over.

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Course syllabus

Topics	Sub-topics
Getting Started	The AutoCAD Map 3D user interface Drawing settings Coordinate systems

Linking and Managing Drawing-Based Attribute Data	Object data:
	    Creating and attaching object data
	    Editing and managing object data
	    Creating dynamic annotation
	
	Database-linked data:
	    Connecting to a database
	    Defining a link template
	    Linking records to objects
	    Querying from the database
	    Using database information in a drawing

Using Object Classification	Setting up an object classification Classifying, selecting, and creating classified objects
Importing & Exporting Drawing-Based Data	Importing and exporting GIS data, e.g. ESRI, MapInfo, etc.
Working with Raster Images	Inserting raster images Managing raster images through an attached drawing Modifying raster image properties and behaviour

Source Drawings	Working with source drawings:
	    Attaching source drawings
	    Drawing aliases
	
	Using source drawing queries:
	    Defining property and location queries
	    Defining data queries
	    Compound queries
	    Altering properties during queries
	    Using the query library
	    Saving back new and queried objects

Topics	Sub-topics

Drawing Presentation	Stylising Drawings:
	    About the Display Manager
	    Creating display maps
	    Creating thematic maps
	
	Plotting maps:
	    Map books
	    Drawing output formats

Establishing a Geospatial Environment	Connecting to a feature source Working with point data Using coordinate systems Query features on connect
Managing Features	Using bulk copy Using joins with feature sources Using buffers Using calculated properties Adding geospatial data validation Using overlay analysis
Stylising Features	Stylising features Enhanced feature styles
Workflows	Using workflow designer for overlay analysis
Editing Features	Editing feature attributes and geometry Working with DEM files Moving Data Between DWG™ objects and FDO features Merging and splitting features
Job Processes	Updating parcels with a newly subdivided zoning area Creating a map using cartographic standards Sharing geospatial data with a third party

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