

## *ATC Training:* **Learning AutoCAD Map 3D 2010**

### **Courseware Description**

This courseware is designed to enable new users to learn the features and functions of AutoCAD® Map 3D 2010 software to **Create, Manage, and Analyse** mapping data. The class guides delegates through the fundamental and advanced features of AutoCAD Map 3D 2010.

### **Objective**

The primary objective of the course is for delegates to learn the fundamentals of AutoCAD Map 3D 2010, and through hands-on exercises learn how to create, edit, manage, and analyse mapping data.

After completing this course, users will be able to:

- Ø Describe the AutoCAD Map 3D user interface.
- Ø Create and edit geometry.
- Ø Link and manage drawing-based attribute data.
- Ø Use object classification.
- Ø Import and export drawing-based data.
- Ø Work with raster images.
- Ø Work with source drawings.
- Ø Use source drawing queries.
- Ø Stylise drawings.
- Ø Use topology and spatial analysis.
- Ø Plot maps.

### **Who Should Attend**

This courseware is designed for new or limited users of AutoCAD Map 3D.

### **Prerequisites**

It is recommended that delegates complete the *Learning AutoCAD* course or know how to use AutoCAD® software to create basic geometry, manage layers, enter commands, and manage files.

It is also recommended that delegates have a working knowledge of Microsoft® Windows® Vista, Microsoft® Windows® XP, or Microsoft® Windows® 2000.

**Course Code: EM0615\_MAP2010ES**

**Course Duration: 2 days**

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## Course Outline

### Getting Started

- Ø The AutoCAD Map 3D Interface

### Creating and Editing Geometry

- Ø Working with Coordinate Geometry
- Ø Performing Drawing Cleanup

### Linking and Managing Drawing-Based Attribute Data

- Ø Creating and Attaching Object Data
- Ø Editing and Managing Object Data
- Ø Creating Dynamic Annotation
- Ø Connecting to a Database
- Ø Defining a Link Template and Linking Records to Objects
- Ø Using Database Information in a Drawing

### Using Object Classification

- Ø Setting Up Object Classification
- Ø Classifying, Selecting, and Creating Classified Objects

### Importing and Exporting Drawing-Based Data

- Ø Importing and Exporting other GIS Data e.g. ESRI, MapInfo etc

### Working with Raster Images

- Ø Inserting Raster Images
- Ø Managing Raster Images through an attached drawing
- Ø Modifying Raster Image Properties and Behaviour

### Working with Source Drawings

- Ø Attaching Source Drawings
- Ø Working with Coordinate Systems

### Using Source Drawing Queries

- Ø Defining Property and Location Queries
- Ø Defining Data Queries
- Ø Compound Queries
- Ø Altering Properties With Queries
- Ø Using the Query Library
- Ø Saving Back New and Queried Objects

### Stylising Drawings

- Ø About the Display Manager
- Ø Creating Display Maps
- Ø Creating Thematic Maps

### Using Topology and Spatial Analysis

- Ø Creating Network Topologies
- Ø Network Topology Analysis
- Ø Creating Polygon Topologies
- Ø Polygon Topology Analysis

### Plotting Maps

- Ø Map Books

### Job Processes

- Ø Creating Hydrant Maintenance Reports
- Ø Adding Hyperlinks Automatically to Objects
- Ø Transitioning From Drawings to Feature Sources

### Survey Data

- Ø Creating Survey Data Stores
- Ø Working With Survey Data Stores

*Note: The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.*

## AIT Spatial Workshops

As an alternative to the standard ATC course, we are also able to provide an AutoCAD Map 3D 2010 Workshop covering a selection of those topics listed above. If you are interested in undertaking an AutoCAD Map 3D 2010 Workshop, please contact us and we can discuss your bespoke requirements.