



K A D M E

## **GIS Training: Two Day Training Course**

### **Day 1**

#### **Introduction to GIS**

An introduction to GIS fundamentals, and the benefits of spatially enabled databases and spatial analysis.

#### **Introduction to ArcGIS**

An overview and first look at the ArcGIS software suite and its components. The ESRI licensing model.

#### **Getting around**

Loading data and navigating around the map. Looking at a feature's attributes. Labeling features. Zoom extents.

#### **Feature classes**

Editing existing features and their attributes. Creating features from coordinates.

#### **Spatial references**

A look at the components of a spatial reference and why a spatial reference is crucial to the integrity of a dataset.

#### **Organizing data**

A comparison of vector and raster GIS data types. This module looks at how to create and manage various ESRI data structures, as well as their associated spatial references.

#### **Rasters**

Creating a raster catalogue of image data using geo-referencing. Deriving vector data from these images using digitization techniques.

#### **Other spatial data**

Exporting data to CAD packages and other visualization tools such as Google Earth.

#### **Metadata**

Learning why data about data is useful, and how it supports best practices for storing, sharing and searching datasets.

### **Day 2**

#### **Looking into the data**

Generating spatial queries. Selecting data based on location. Joining spatial features to other attribute sources.

#### **Spatial data analysis**



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How to manipulate spatial data using predefined toolsets and create streamlined workflows with Model Builder.

### **Visualizing results with thematic maps**

Use thematic mapping techniques to visualise the results of an analysis.

### **Creating output**

Covering cartographic techniques and dynamic labeling options to create cartographic output in various formats. The creation of map templates for quick map production or re-production.

### **Map making**

How to add other map features such as graphs and text. Automatic creation of 'map books' – a series of maps covering a region.

### **Layer properties**

How to modify advanced layer properties to optimize mapping and on-screen drawing.