

# Introduction to ArcGIS

## 2 Day Training Course

Hobart: 30 & 31 March, 2010

RIA Mobile GIS, Hobart

### Learn to use ArcGIS

This two-day robust course provides a conceptual overview and hands-on experience using ArcGIS software. The course teaches basic ArcGIS functionality and enables participants to quickly take advantage of the software's powerful display and analysis capabilities. Participants are introduced to the desktop applications in the ArcGIS suite and how to use them to create, edit, display, query, analyse and present geographic and tabular data. Data sets and examples cover a wide spectrum of business cases and applications to help you apply the ArcGIS features to your workplace immediately.

### You will learn about

- The desktop applications that make up ArcGIS.
- Using ArcMap to display and query all types of geographic data.
- Joining or linking databases to spatial features.
- Symbolising and classifying data using the layer properties window.
- Working with map projections including the Australian Map Grid (AMG), the new Geodetic Datum of Australia and converting between them.
- Creating and editing data including the powerful new editing capabilities of ArcGIS.
- Precision data entry including, absolute and relative coordinate, angles and distances.
- Working directly with Microsoft Access Databases including writing and updating records.
- How the new sketch tool works.
- Working with layer and data frame properties.
- Customising map templates.

### Learning Methods

- Instructor presentation of topics, concepts and techniques using slides and live demonstrations.
- Practice sessions; each student receives a work book that guides them through realistic ArcGIS activities.
- Questions and discussions.

This ArcGIS course is a stimulating and rewarding experience. There is a good mix of instructor presentation and practice sessions so that you can make the most of the two day course. The atmosphere is informal and friendly providing the ideal learning environment.

### Made in Australia

This is not a standard ESRI course that exclusively uses data from the USA. The practice sessions were developed in Australia and adhere to the usual ESRI training standards. The practice sessions have an appeal to a broad cross section of users from Botanists to Engineers.

### Trainers with at least 10 years experience

Our trainers have at least 10 years experience in working with ESRI software and are also skilled in transferring their knowledge to new users.

### Prerequisites

This course is for those with little or no desktop mapping or GIS experience; however, registrants should be familiar with Microsoft Windows.

### Added Value

Course participants will receive one month of free telephone support on the course material.

***"Fast learning, excellent course."***

David Seymour, Mineral Resources Tasmania

***"As a teacher and workplace trainer, I was pleasantly surprised at the high quality of the training – the environment was also excellent, thank you."***

Andy Baird, Greening Australia



# Course Outline

## Day One

### Introducing ArcGIS

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- What is ArcGIS and what can it do?
- ArcMap
- ArcCatalog
- ArcToolbox
- ArcGIS product suite

**Practice Session 1:**

*A taste of ArcGIS; explore Australia*

### Spatial Data Display

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- Components of ArcMap
- Controlling the Map display
- Symbols and Symbol Editing
- Thematic Mapping
- Adding labels

**Practice Session 2a:**

*Using ArcMap*

- Representing a round earth on a flat screen
- Map projections and coordinate systems
- Distortion
- Australian Map Grid (AMG)
- Map Grid of Australia

**Practice Session 2b:**

*Setting coordinate system properties*

### Spatial Data Access

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- Modelling the real world
- Feature types and classes
- The attributes of features
- Metadata – data about data
- Supported data formats

**Practice Session 3:**

*Exploring Southern Tasmanian spatial data using ArcCatalog and ArcMap*

### Spatial Data Editing

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- What can you edit
- The Editor Toolbar
- Edit Session Control
- Selecting the features to edit
- Sketches
- Spatial Editing Functions
- Editing Attributes

**Practice Session 4a:**

*Adding and editing polygon data*

- Distance and Intersection Tools
- Coordinate entry
- Snapping and tracing

**Practice Session 4b:**

*Creating and editing polygons using snapping and tracing*

## Day Two

### Tabular Data Access

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- What is a table?
- Field types
- Working with Tables
- Table relationships
- Links and Joins
- Useful Tools for Tables

**Practice Session 5:**

*Exploring tabular data using ArcMap and ArcCatalog*

### Querying and analysing

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- Finding features using the find tool
- Setting up maps tips
- The identify tool
- Hyper-linking to web pages
- Attribute selection
- Spatial selection
- Other selection tools
- Select by location
- Select across data layers
- Statistics
- Analysing selection results

**Practice Session 6:**

*Query your data in ArcMap*

### Presenting your Results

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- Producing a Map
- Layout view
- Zooming the layout and zooming the page
- Layout grids and rulers
- Components of a layout
- Grids and graticules
- Rotating maps
- Working with data frames
- Map templates
- Printing and plotting

**Practice Session 7:**

*Putting it all on Paper*

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**TAX INVOICE - ABN 56 089 224 331**

## Cost per person (GST included):

**Registrations before 8 March 2010 - \$990 for two days (30 & 31 March, 2010)**

**Registrations after 8 March 2010 - \$1,320 for two days (30 & 31 March, 2010)**

## Course Venue

**The Quill Consultancy, Level 6 152 Macquarie Street Hobart**

## Register by:

- Fax completed registration form to: **RIA Mobile GIS (03) 6223 4381**
- Post completed registration form to: **RIA Mobile GIS, GPO Box 2014, Hobart, Tasmania, 7001**
- Send email to [ContactUs@riamobilegis.com.au](mailto:ContactUs@riamobilegis.com.au) (and provide the following details)

Surname:		Given Name:	
Organisation:			
Address:			
			Postcode:
Telephone (WK)		(Fax)	
Email:			
<b>METHOD OF PAYMENT (Please make payments to DataVision GIS Pty Ltd)</b>			
<b>Cheque No</b>		<b>Purchase Order No</b>	
<b>Credit Card:</b>	Visa <input type="checkbox"/>	BankCard <input type="checkbox"/>	MasterCard <input type="checkbox"/>
Card Number:	_____	_____	Expiry Date ____ / ____
Name:	Signature:		

## Enquires:

Telephone: (03) 6223 6444  
Email: [ContactUs@riamobilegis.com.au](mailto:ContactUs@riamobilegis.com.au)



## Thank you

Thank you for registering, we will send you confirmation details before the course.