



Ian can see that flexible training options are the answer for his client, it helps minimise the disruption to their Client Service Centre

Desktop I: Getting started with GIS

ESRI Australia's Training Solutions -

supporting your location intelligence needs through flexible and valuable training options.

Why is it important?

This course provides the foundation for understanding what GIS is, what it can do, and how others are using it. You learn the basic functions of a GIS, why a GIS database is powerful, and what coordinate systems and map projections are and why they are important. In course exercises, you work with ArcMap™ to visualise geographic data, create maps, query a GIS database, perform spatial analysis using common analysis tools, and solve geographic problems using a systematic approach. This course teaches the skills and knowledge needed to take other ArcGIS® Desktop courses.

Designed for

This course is designed for those who are new to GIS and ArcGIS, or those who are infrequent users of ArcGIS who do not have a GIS background.

Course Level: Beginner

Learning Outcomes

- // Explain what a GIS is and what it can do
- // Work with and create GIS maps in ArcMap
- // Access and query a GIS database
- // Describe two common GIS data structures
- // Explain what geographic data is, how it is made, and where to get it
- // Explain what spatial analysis is and solve geographic problems using ArcGIS analysis tools

Prerequisites

Students should know how to use Windows-based software for basic file management and browsing.

Recommended Reading

The ESRI Guide to GIS Analysis, Volume 1: Geographic Patterns and Relationships. *Andy Mitchell*

A to Z GIS. *Tasha Wade and Shelly Sommer*

Certain recommended books can be purchased online, by visiting the ESRI Australia online store at www.esriaustralia.com.au/onlinestore

Course Details

Duration	2 days
Commencement Dates	For the latest course calendar please visit www.esriaustralia.com.au/training
Terms & Conditions	For the latest ESRI Australia training terms & conditions please visit www.esriaustralia.com.au/training

Course Content

The big picture of GIS

- // Basic functions of a GIS
- // Real-world applications

Exploring GIS maps

- // Defining features, layers, and data frames
- // Exploring map scale
- // Understanding the relationship between features and attributes

Exploring a GIS database

- // Exploring attribute tables
- // Identifying features
- // Symbolising features based on their attributes
- // Labelling features based on their attributes

Creating map layouts

- // Understanding data view and layout view
- // Using map templates
- // Modifying map elements
- // Printing maps

Understanding location

- // Defining coordinate systems and map projections
- // Reading and finding location coordinates on a map
- // Measuring area and distance on a map

Understanding raster and vector data

- // Representing geography
- // Storing real-world locations
- // Symbolising rasters
- // Understanding geodatabases

Acquiring geographic data

- // Data formats
- // Methods of creating geographic data
- // Using ArcCatalog™ to explore geographic data
- // Using metadata

Querying data

- // Understanding and performing attribute queries
- // Understanding and performing spatial queries

Analysing spatial relationships

- // Understanding overlay and buffer
- // Accessing tools in ArcToolbox™
- // Performing Union and Intersect

Solving problems with GIS

- // Applying the geographic inquiry process
- // Creating a map to show results

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About ESRI Australia

ESRI Australia is the source of astute professional services and Geographic Information Systems (GIS) technology. We're experts in location intelligence, with over 30 years experience in implementing GIS solutions in dozens of industries.

Our passion for technology and considered approach gives our clients the power to see more and do more. With our expertise, knowledge, vision and technical capability, we turn 'possibility' into 'reality'.

ESRI Australia Training Solutions

Derive maximum benefit from your location intelligence solution by ensuring your workforce has the knowledge and skills to fully utilise your investment in GIS.

ESRI Australia offers a complete range of training services to help educate and support your solution end users and administrators. With courses for beginners,

intermediate and advanced users, ESRI Australia caters for all skill sets and educational requirements.

Our courses are taught by ESRI Inc. authorised instructors, which means that your employees can be assured of receiving consistent quality GIS training by accredited trainers.

Our flexible training options range from developing and delivering a complete training program for your organisation through to a range of scheduled courses held at centrally located training facilities.

With client site, scheduled or knowledge transfer training available, ESRI Australia can provide the solution to meet your organisation's training needs.

For course descriptions, or further information about ESRI Australia's flexible training solutions please visit www.esriaustralia.com.au/training

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