



Learn ArcMap

Self-paced training is ideal for motivated learners who want flexibility in their training schedule or location. **This fact sheet outlines free and low cost options for those who would like improve their knowledge and skills with ESRI® ArcMap v10.1.**

Learning resources target the use and applications of geographic information systems (GIS); and, global positioning systems (GPS). They aim to improve skills and knowledge (capturing, validating, storing, editing and manipulating spatial data), and apply these to problem solving. Additional resources have been provided to help manage spatial data and produce industry standard mapping products.

Online general training is supplemented by tutorials from GIS staff; particularly in the use of QMDC's Community Resource Information System (CRIS) and standard operating procedures for GIS.

Prerequisites

The following should be considered before undertaking ArcMap training:

- 1) Review overall time commitment and skills required.
- 2) Access to software ArcMap (v10+). Some QMDC staff may have access to the corporate ArcInfo licence (contact Regional Coordinator's). Alternatively use low-cost – free mapping software:
 - a. ArcGIS Online (for personal use) [>>More information online](#)
 - b. ArcGIS for Desktop (free trial)
 - c. ArcGIS for Home Use Program [>>More information online](#) A non-commercial licence; only be used to increase skills at home and/or volunteer skills. Not to be used to produce QMDC Maps. Cost is approximately \$100, contact ESRI Australia (www.esriaustralia.com.au)
 - d. ESRI Non-profit Organisation program (variety of licence levels at a significantly reduced cost). [>>More information online](#)
- 3) Basic understanding of maps, GPS (global positioning systems) and computers. See [Basic Guide to Global Positioning Systems: Student Manual](#) (Intranet link)

ESRI Self-Paced Training

ESRI web courses teach concepts that underlie GIS technology and best practices for using ESRI software to accomplish GIS workflows. Learn anytime from anywhere with an internet connection (and GIS software loaded). The web courses include:

- Hands-on practice with ESRI software (Local access to ESRI software is required, see prerequisites above).
- Demonstrations and interactive activities
- Conceptual material
- Course exams to assess learning

To complete training you will need to create an [ESRI Global Account](#) and Register at [My Virtual Campus Training](#). Then select from the recommended courses listed below:

- 1) [Getting Started with GIS \(for ArcGIS 10\)](#) (9hrs in 3 modules)
- 2) [Basics of Geographic Coordinate Systems \(For ArcGIS 10\)](#) (3hrs)
- 3) [Using ArcMap in ArcGIS Desktop 10](#) (3hrs) – quick update for those familiar with ArcGIS
- 4) [Editing in ArcGIS Desktop 10](#) (3hrs)
- 5) [Layout Design Essentials for ArcGIS 10.1](#) (1hr)



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- 6) [Field GIS: Collecting and Editing Data using ArcPad 10](#) (3hrs)
- 7) [Turning Data into Information using ArcGIS 10](#) (18hrs in 6 modules)

The following training seminars (no exams) may also be of interest:

- 8) [Creating Map Books using Data Driven Pages](#) (1hr)
- 9) [Introduction to Spatial Pattern Analysis](#) (1hr)

For a complete catalogue of training available visit <http://training.esri.com>

Access Data and Templates

For non QMDC staff a range of data download services has been published on the QMDC website [Datahub](#), [Water Theme](#), and [Land Theme](#). The Queensland Government Information Service (<http://dds.information.qld.gov.au/dds/>) and the Interactive and Resource Tenure Maps ([IRTM](#)) provide download services for a significant number of spatial data files in Queensland.

Other sources of basic information such as roads and background maps can be found online at:

- Australian Hydrological Geospatial Fabric (Geofabric) for rivers, lakes, reservoirs, dams, canals and catchments. <http://www.bom.gov.au/water/geofabric/index.shtml>
- Geoscience Australia (www.ga.gov.au) Topographic data (<http://www.ga.gov.au/topographic-mapping/digital-topographic-data.html>)
- ArcGIS online (www.arcgis.com) background and community contributed maps.
- Open StreetMap Australia (<http://www.osmaustralia.org/>) Free road networks.

Some of these services can be consumed within ArcGIS software.

The following tutorial and training sessions are available from QMDC GIS team. Please contact GIS Regional Coordinator for availability, costs and timing.

- 1) Load and use map templates (for internal use only), projections (1hr one-on-one)
- 2) Availability and use of spatial data. These seminars may be delivered by other organisations such as DERM and may not always be available:
 - a. Overview and connection QMDC GIS libraries (2hr Group or one-on-one)
 - b. Biodiversity Assessment and Mapping Methodology (7hrs)
 - c. AquaBAMM (7hrs)
 - d. Predictive Habitat Modelling (1hr)
- 3) Introduction to (QMDC) Geodatabases (3hrs)
- 4) Collect Basic GPS Data (7hr group training)
- 5) Works Certification (1-4hr group training)

Other Resources:

Community Resource Information System (QMDC) support documents:

- Standard Operating Procedures (GIS) for field staff ([intranet](#))
- Manual for GIS and technical staff ([intranet](#))
- Basic Guide to Global Positioning Systems – Student Manual ([intranet](#))
- Sample [map books](#) and information produced for desktop assessments

Industry Resources:

- ANZLIC metadata Profile Guidelines VER1.2 July 2011 [>>more information online](#)
- Surveying & Spatial Sciences Institute Publications: Journal of Spatial Science; Position Magazine; Spatial Source [>>more information online](#)
- [Wiki.gis.com](http://www.wiki.gis.com)