



Jonathan can see the benefits of the practical skills he develops through a course; it makes him more efficient in performing his job

# Working with CAD Data in ArcGIS® Desktop

## ESRI Australia's Training Solutions

supporting your location intelligence needs through flexible and valuable training options

### Why is it important

Computer-aided design (CAD) files are excellent sources for GIS content. CAD files vary widely in complexity—some files are simple 2D drawings containing only a few textual elements, while others are highly sophisticated, containing 3D surfaces, spatial extents, and extended attribute information.

This course teaches fundamental concepts of CAD data integration within ArcGIS. You learn methods and best practices for working with native CAD data in ArcGIS, converting CAD data to GIS data, and options for converting GIS data to CAD formats. The course also covers techniques related to CAD/GIS workflows, including working with annotation, georeferencing CAD files, and managing attributes and table schemas.

### Designed for

This course is designed for experienced ArcGIS users who need to integrate CAD data within ArcGIS. Experienced CAD users who have basic ArcGIS skills will also find the course of benefit.

**Course Level:** Intermediate

### Learning Outcomes

- // Describe CAD integration with ArcGIS.
- // Use CAD data within geoprocessing workflows.
- // Control the visibility of CAD data.
- // Change how CAD data is symbolized in ArcMap.
- // Perform spatial queries to select CAD features in a drawing.
- // Georeference a CAD file.
- // Create world files for CAD data transformations.
- // Define a coordinate system for CAD data.
- // Provide interoperability between GIS and CAD software (roundtrip workflow).
- // Translate CAD data into ArcGIS data formats.
- // Generate data in standard CAD formats (AutoCAD DWG/DXF, Microstation DGN).

### Prerequisites

Students should have completed *ArcGIS Desktop II: Tools and Functionality* or have equivalent knowledge.

### Recommended Reading

**Designing Geodatabases:** Case Studies in GIS Data Modeling. *Dr. David K. Arctur and Michael Zeiler*

Certain recommended books can be purchased online, by visiting the ESRI Australia online store at [www.esriaustralia.com.au/onlinestore](http://www.esriaustralia.com.au/onlinestore)

### Course Details

|                                     |  |
|-------------------------------------|--|
| <b>Software used in this course</b> | ArcGIS Desktop – ArcEditor/ArcInfo 9.3<br>ArcGIS Extensions – 3D Analyst 9.3   |
| <b>Duration</b>                     | 1 day  |
| <b>Commencement Dates</b>           | For the latest course calendar please visit <a href="http://www.esriaustralia.com.au/training">www.esriaustralia.com.au/training</a> |
| <b>Terms &amp; Conditions</b>       | Please see our website for the latest terms and conditions   |

### Course Content

- // Managing CAD data in ArcGIS
- // Using CAD data in ArcGIS
- // Transforming CAD files
- // Converting CAD files
- // Creating CAD drawings from GIS data
- // CAD workflows and best practices

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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 our 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 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 a client site, scheduled or knowledge transfer training available, ESRI Australia can provide the solution to meet your organisations training needs.