



Cadcorp SIS 7

Training Brochure



AGI Accredited Training 2009



Cadcorp Training (UK)

Training is vital to successfully deliver any GIS implementation. At Cadcorp we aim to work with you in developing the knowledge and skills required to set-up, deploy, utilise and ultimately manage a system for your organisation.

Cadcorp offers a range of standard courses which can be delivered from a suitable location at your organisation or from our HQ based in Stevenage. In addition we are happy to discuss and advise you on possibilities for customised training or carry out a formal training needs/requirements analysis to build agendas just for you.

All standard courses are accredited by the Association for Geographic Information (AGI) and can contribute to the Chartered Geographer status. Continual Professional Development (CPD) points are awarded; see course pages for allocation.

All students will receive a comprehensive training manual containing real-life examples and exercises. Training data to complement this can be supplied, or indeed you may supply your own data. Our courses use training data from Ordnance Survey Great Britain, Ordnance Survey Northern Ireland and Ordnance Survey Ireland as appropriate.

On completion of a full course a certificate of attendance is awarded.

Our Approach

Courses are designed to be hands-on, which are instructor-led and a modular approach is adopted to provide a topic-based training manual and to allow flexibility in the agenda.

Student numbers restricted to 6 to enhance the training experience and encourage a fun interactive session.

Students are encouraged to utilise the Cadcorp Portal as a post-course resource for asking questions and sharing information with the Cadcorp community. Check out this in advance <http://www.cadcorp.com>.

Contact Us

For further information please visit www.cadcorp.com; alternatively email us at cadcorp@cadcorp.com; or contact your Account Manager.

Cadcorp SIS Products

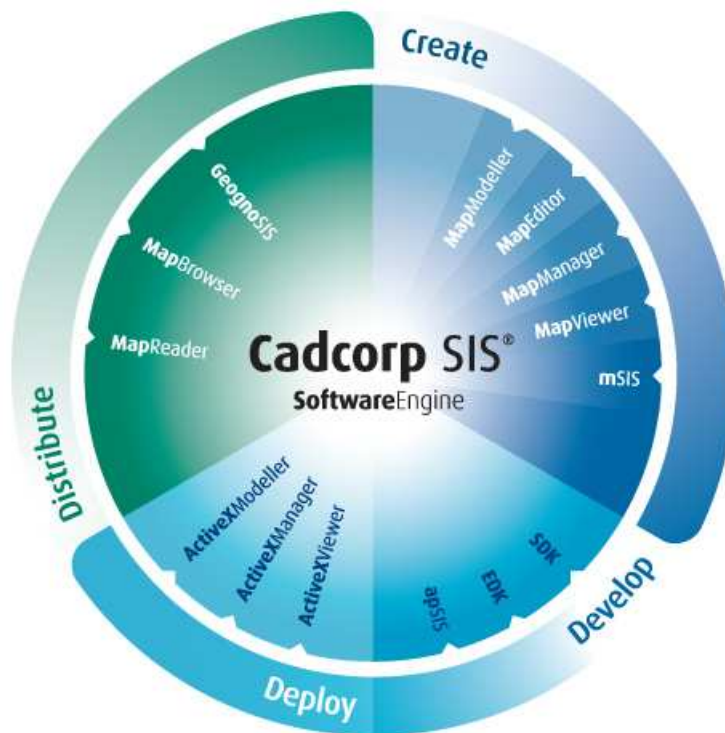
Cadcorp SIS software is available as an 'out-of-the-box' **Desktop GIS** for map data viewing, editing, creation and modelling; as **Developer Kits** to enable bespoke GIS application creation and integration; as an **ActiveX** based runtime for application deployment; as a **Web-based GIS** for web application creation and data distribution and finally as a **Mobile GIS**. All Cadcorp software uses the same methods and code, ensuring consistency and interoperability across the product range.

The Cadcorp SIS product suite: one common software source – integrated GIS.

Cadcorp SIS web-based GIS products include Cadcorp **GeognoSIS** and Cadcorp SIS **Map Browser**.

Cadcorp SIS Desktop products are used for map data viewing, editing, creation and modelling.

Map Reader is a free data viewing tool.



Cadcorp **mSIS** is an easy to use data capture application for the Pocket PC platform

Cadcorp SIS **ActiveX runtime licences** enable developers to deploy applications written using the Cadcorp SIS Software Developer Kit (**SDK**).

The Cadcorp SIS **Developer kits** can be used to develop desktop and web based applications and to integrate with, or geo-enable, third party software products.

An Overview - Standard Courses

GIS User		
	Duration	Page
An Introduction to GIS Using Cadcorp SIS	2 days	5
Using Cadcorp SIS with Ordnance Survey Data	1 day	6
Working with mSIS	1 day	7
GIS Manager		
An Introduction to Working with Cadcorp SIS	2 days	8
Administering Cadcorp SIS	3-4 days	10
Upgrading to Cadcorp SIS 7	1 day	12
Administering a GeognoSIS Website	1 day ¹	13
GIS Developer		
An Introduction to Working with GisLink – Customising the Cadcorp SIS desktop	1 day	14
An Introduction to Using ActiveX with Cadcorp SIS – Creating Cadcorp SIS applications	1 day	15
Expert Developer		
Developing Websites using GeognoSIS	2 days	16

Bespoke Courses

Cadcorp SIS Refresher	Duration on an as-needed basis	17
Train the Trainer		
Industry/Organisation Specific Courses		
Go-Live floor walking		
Other Consultancy services		

Courses are delivered with the current shipped version of Cadcorp SIS. Cadcorp will provide licensing as appropriate for the relevant courses.

¹ 2 days if no previous Cadcorp SIS courses have been undertaken as essential concepts are required.

An Introduction to GIS Using Cadcorp SIS

Overview

This course introduces students to both GIS and Cadcorp SIS; it provides the basics for every day use of Cadcorp SIS. The course gives an overview of the fundamentals of viewing, creating, editing and managing spatial data as well as finding data, executing basic queries and printing.

Students

Those who are new to the concepts GIS and Cadcorp SIS.

Aims

To:

- Understand the functions of a GIS
- Introduce the main Ordnance Survey datasets
- Display graphical and attribute data
- Create and use Cadcorp files
- Create, edit and measure spatial data
- Make use of the Gazetteer
- Create printed output

Agenda

- What is GIS?
- An Introduction to Cadcorp SIS
- Spatial Data Concepts
 - Adding and Viewing Overlays
- Cadcorp SIS Concepts
 - The SWD and SIS Files
- Creating and Editing Data
 - Creating polygons, lines, points and text features, and the Internal Dataset
- Creating and Managing Overlays
 - The BDS & FDB files
- Using the Gazetteer
- Map Presentation
- Optional (if appropriate):
 - Working with Oracle Spatial
 - Working with PostGIS
 - Working with SQL Server 2008

Prerequisites

No prior knowledge of GIS is assumed.

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Word, Excel, Access

CPD Points Allocation: 7

Working with Cadcorp SIS & Ordnance Survey (GB) Data

Overview

This course introduces students to Ordnance Survey (OS) data using Cadcorp SIS; it provides the building blocks for understanding all major datasets.

Core Cadcorp SIS and free GisLink functionality are explored for maximising use of this data. In addition OS MasterMap Managers are used to realise the potential of the appropriate datasets.

Students

Those who have some experience of a GIS.

Aims

To:

- Give an understanding of all major OS products using Cadcorp SIS
- Introduce data collection, data management, analysis and presentation concepts using specific case studies

Agenda

- Introducing Raster & Vector Formats
 - Advantages and disadvantages of different formats
 - How to create useable Overlays in Cadcorp SIS
 - Styling
 - Creating areas of interest and exporting data to other formats
 - Using datasets as Gazetteers
 - *GisLinks: Gazetteer, Multiple Buffers, Drilldown*
 - *Case studies: Flooding, Insurance Risk Analysis*
- Introducing OS MasterMap: the Topographic, Integrated Transport Network (ITN), Address Layer 2 (AL2), Imagery and Pictometry Layers
 - OS MasterMap, ITN and AL2 Managers
 - Utilising TOIDs
 - Using Feature Tables, Themes, Formulas, Grids and TINs
 - *GisLinks: MasterFill, Attribute Wizard, Routing Tools, Pictometry Viewer*
 - *Case studies: Grass cutting contracts, Rent arrears collection, Car Parking Schemes*
- Printing and PDF Creation Techniques
 - *Using GisLinks: Print Workshop*
 - OS Copyrights

Prerequisites

Prior knowledge of GIS is assumed

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Excel, Access
- Adobe Reader
- GIS data

CPD Points Allocation: 7

Working with mSIS

Overview

mSIS (Mobile Spatial Information System) facilitates data-capture 'out in the field' and consists of mSIS Office (for desktop PC) and mSIS Mobile (for Pocket PC mobile devices).

This course introduces mSIS's functionality as a logical sequence of tasks, whose order might closely represent a typical day-to-day workflow scenario.

Students

Those who have some experience of a GIS.

Aims

To:

- Give an understanding of working with mSIS Office and mSIS Mobile
- Introduce data management and data collection techniques in the mSIS environment

Agenda

- Installation Procedures
- mSIS Overview
- Project Creation and Maintenance
- Using Raster and OS MasterMap data
- SDS Overlays for Data-capture
- The Project Transfer Process (to and from mobile device)
- Geometry Construction and Editing
- The Use of GPS
- Schemas for 'Guided Attribute Entry'

Prerequisites

Prior knowledge of GIS is assumed

Students need to be proficient in the use of:

- The Mouse and Keyboard and Mobile device
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Excel, Access
- GIS data (Raster and Vector) including that from the Ordnance Survey

CPD Points Allocation: 4

An Introduction to Working with Cadcorp SIS

Overview

This course introduces students to Cadcorp SIS; it provides the basics for every day use and management of Cadcorp SIS. The course gives an overview of the fundamentals of viewing, creating, editing and managing spatial data as well as finding data, executing basic queries and printing. In addition spatial and attribute analysis is introduced, exporting data to various formats, and creating, managing and using libraries.

Students

Those who are new to Cadcorp SIS, but have some experience of a GIS.

Aims

To:

- Display graphical and attribute data
- Create and use Cadcorp files
- Create and edit and measure spatial data
- Manage and use the Gazetteer
- Create printed output
- Use various tools for analysis
- Understand how to export data to other formats
- Understand how and when to use libraries

Agenda

- An Introduction to Cadcorp SIS
- Spatial Data Concepts
 - Adding and Viewing Overlays
- Cadcorp SIS Concepts
 - The SWD, PWD and SIS Files
- Creating and Editing Data
 - Creating polygons, lines, points and text features, and the Internal Dataset
- Creating and Managing Overlays
 - The BDS & FDB files
- Map Presentation
- Querying Data
- Schema and Formulae
- Thematic Mapping and Table Joins
- Distributing Data
 - Exporting Raster and Vector data
- An Introduction to Libraries
 - The NOL file
- Managing Cadcorp SIS

Prerequisites

Prior knowledge of GIS is assumed

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Word, Excel, Access
- Adobe Reader

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- GIS data (Raster and Vector) including that from the Ordnance Survey
 - Other GIS/CAD vendors (ESRI, MapInfo, AutoCAD etc) would be preferred, but not necessary

CPD Points Allocation: 7

Administering Cadcorp SIS

Overview

This course introduces students to Cadcorp SIS; it provides the basics for every day use and management of Cadcorp SIS. The course gives an overview of the fundamentals of viewing, creating, editing and managing spatial data as well as finding data, executing basic queries and printing. Spatial and attribute analysis are introduced, exporting data to various formats, and creating, managing and using libraries. In addition a mix and match approach to further modules can be undertaken.

Students

Those who are new to Cadcorp SIS, but have some experience of a GIS.

Aims

To:

- Display graphical and attribute data
- Create and use Cadcorp files
- Create and edit and measure spatial data
- Manage and use the Gazetteer
- Create printed output
- Use various tools for analysis
- Understand how to export data to other formats
- Understand how and when to use libraries

Agenda

- An Introduction to Cadcorp SIS
- Spatial Data Concepts - Adding and Viewing Overlays
- Cadcorp SIS Concepts - The SWD, SWT and SIS Files
- Creating and Editing Data - Creating polygons, lines, points and text features, and the Internal Dataset
- Creating and Managing Overlays - The BDS & FDB files
- Querying Data
- Map Presentation
- Schema and Formulae
- Thematic Mapping and Table Joins
- Distributing Data
- An Introduction to Libraries – The NOL file
- Managing Cadcorp SIS

Further modules are optional and dependant on the level of Cadcorp SIS license; it is normally possible to cover 4-6 per day from the following topics:

Map Manager and above

- Administering and Using Map Reader
- Advanced Attribute and Spatial Querying
- Advanced Formulae
- Advanced Libraries
- Working with Oracle Spatial
- Working with PostGIS
- Working with SQL Server 2008

Map Editor and above

- Advanced Editing and CAD Tools
- Rubbersheeting
- Working with Topology

Map Modeller

- 3D Analysis – including Grids and TINs for Hotspots
- 3D Visualisation
- OS MasterMap, ITN and Address Layer 2 Managers

Training in using various Utilities and GisLinks (check the Portal for freely available tools to download) is also available. The licence level required is determined by the functionality used within the GisLink.

Prerequisites

Prior knowledge of GIS is assumed

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Word, Excel, Access
- Adobe Reader
- GIS data (Raster and Vector) including that from the Ordnance Survey
- Other GIS/CAD vendors (ESRI, MapInfo, AutoCAD etc) would be preferred, but not necessary

CPD Points Allocation: 10 (3 days) **11** (4 days)

Upgrading to Cadcorp SIS 7

Overview

This course introduces students to Cadcorp SIS 7; it provides a hand-on insight into the new concepts and features available. As a current Cadcorp SIS user you will be able to test out the existing and new functionality which will be brought to your organisation by upgrading to this latest release.

Students

Those who are users and administrators of Cadcorp SIS 6.2.

Aims

To:

- Explain the need to upgrade and how upgrading may effect your current workflows
- Understand new standard terminology
- Use new functionality

Agenda

- Licensing
 - Licensing models
 - New License Administration Tool
 - New Sentinel RMS Licence Manager
- Dialogs & Data
 - New displays and dialogs
 - New Preferences
 - New and improved format and database support
 - SDS to FDB Conversion
 - Upgrading SWD Files
 - New integration with 3rd party data sources
- Properties, Feature Tables & Cartographic Styling
 - New field types
 - Introducing Hierarchical attributes
 - Introducing JSON
 - Improved cartographic display
- Table Joins
 - Improved table joins
- Themes
 - Improved legends and cartographic display
 - New Coloursets
- PDF Export
 - Improved exports
 - New integration with 3rd party software
- 3D
 - Improved interaction
 - Data creation for 3rd party software

Pre-requisites

Working knowledge of Cadcorp SIS 6.2

CPD Points Allocation: 4

Administering a GeognoSIS Website

Overview

This course introduces students to GeognoSIS (and Cadcorp SIS if necessary); it provides overview information and general guidance for maintenance of a GeognoSIS website.

Students

Those who will administer and maintain a GeognoSIS website. This course does *not* cover installation or customisation involving any programming.

Aims

To:

- Have an understanding of the structure and principles of a GeognoSIS website
- Confidently use a GeognoSIS website
- Confidently use Cadcorp SIS (if appropriate)
- Be able to configure, monitor, and maintain a GeognoSIS website
- Be able to run GeognoSIS as an OGC Web Map Server/Feature Server

Agenda²

- An Introduction to GeognoSIS
- Using Thick Client Website Tools
- Cadcorp SIS for GeognoSIS
 - Relevant introductory modules from An Introduction to Working with Cadcorp SIS (if appropriate)
 - Creation and maintenance of Saved Window Definitions (SWD's) and Named Object Libraries (NOL's) for GeognoSIS
- Configuration using Web.Config and Application Configuration
- Setting up user permissions
- The GeognoSIS Manager
- GeognoSIS as an OGC Web Map/Feature Server

Prerequisites

Prior knowledge of GIS is assumed.

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename

Students need an awareness of:

- Microsoft Office programs including: Excel, Access
- GIS data (Raster and Vector) including that from the Ordnance Survey

CPD Points Allocation: 4

² 1 day with prior Cadcorp SIS knowledge and 2 days if no previous Cadcorp SIS courses have been undertaken.

An Introduction to Working with GisLink – Customising the Cadcorp SIS desktop

Overview

This course introduces students to Cadcorp SIS GisLink; through exercises it provides the essential steps in creating a Visual Basic project that provides Cadcorp SIS functionality. You will quickly discover how easy it is to write an application with the absolute minimum of code writing.

Students

Those who are users of Cadcorp SIS and use Visual Basic to develop applications.

Aims

To:

- Introduce the fundamentals of GisLink programming
- Create working applications

Agenda

- GisLink Explained
- Running GisLink Applications with Cadcorp SIS
- Building Applications
- GisLink Methods
- Linking to a Database
- Bring along your own GisLink ideas

Prerequisites

Prior knowledge of GIS and Cadcorp SIS is assumed.

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename
- Visual Basic or the .NET development environment using Visual Studio

Students need an awareness of:

- Microsoft Office programs including: Access
- GIS data (Raster and Vector) including that from the Ordnance Survey

CPD Points Allocation: 4

An Introduction to using ActiveX with Cadcorp SIS – Creating Cadcorp SIS Applications

Overview

This course introduces students to the processes involved creating a “standalone” GIS application. These processes are equally applicable to embedding a GIS component within a larger application.

In a series of modular exercises students will build an application from scratch, leading to a functional GIS data viewer with menus, toolbars and a status bar.

Students will acquire an understanding of the scope and power of the Cadcorp SIS Control as a rapid application development tool.

The course introduces the Cadcorp Application Programming Interface (API) building confidence in developing bespoke GIS applications for deployment within their own organisation and for distribution and resale to their customers.

Students

Those who are users of Cadcorp SIS and use Visual Basic to develop applications.

Aims

To:

- Introduce the Cadcorp SIS Control (ActiveX component)
- Gain an appreciation of the simplicity of creating a standalone GIS application
- Understand how to use the Application Programming Interface to provide extended GIS functionality
- Understand the process of building and deploying an application
- Understand the licensing mechanism for developing and deploying applications

Agenda

- Creating a Windows Forms project using Visual Studio VB.NET
- Adding the Cadcorp SIS Control component
- Invoking the inbuilt capabilities of the SIS Control
- Extending the capabilities of the application with custom commands
- Monitoring the end-user’s actions and reacting to them
- Combining inbuilt capabilities with custom actions
- Licensing, building and deploying an application

Prerequisites

Prior knowledge of GIS and Cadcorp SIS is assumed.

Students need to be proficient in the use of:

- The Mouse and Keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename
- Visual Basic or the .NET development environment using Visual Studio

Students need an awareness of:

- Microsoft Office programs including: Access
- GIS data (Raster and Vector) including that from the Ordnance Survey

CPD Points Allocation: 4

Developing Websites using GeognoSIS

Overview

This course introduces the extensive programming interface of GeognoSIS; allowing websites to be built with a wide range of GIS functionality. This course builds on the *Administering a GeognoSIS Website* course.

Students

Those who are going to build their own GeognoSIS website; programming either in a .NET-based language or C#.

Aims

To:

- Introduce the programming capability of GeognoSIS
- Create a working application

Agenda

- The GeognoSIS Service
 - WSDL
 - The GeognoSIS Manger and the structure of GeognoSIS Applications
- Building a Thin-Client Web Site
 - Rendering Images
 - Pan and Zoom tools
 - Manipulating Data
 - Giving Information about the Map Image
 - Printing and Exporting
- Building a Thick-Client Website
 - Setting up Projects with the GeognoSIS Tools Package
 - Extending the Client-Side Application Class
 - Extending the Server-Side ASMX Class
 - Configuring the Application
 - Deployment
- Stored Procedures for GeognoSIS 6.3
 - Creating the Programming Libraries
 - Creating a Stored Procedure in .NET and Datatype in .NET
 - Extending the Thick-Client Stored Procedure Package
 - Creating a Stored Procedure in Java

Prerequisites

Prior knowledge of GIS and Cadcorp SIS is assumed.

Students need to be proficient in the use of:

- The Mouse and keyboard
- Windows, including:
 - Windows Explorer: files and directories, cut, copy, paste, delete, and rename
- Either:
 - Visual Basic or the .NET development environment using Visual Studio
 - Using classes, libraries and compiling code; or
 - C#

Students need an awareness of:

- Microsoft Office programs including: Access
- GIS data (Raster and Vector) including that from the Ordnance Survey

CPD Points Allocation: 7

Bespoke Courses/Consultancy

Cadcorp SIS Refresher

Where students have previously undertaken a Cadcorp training course, a refresher course may be appropriate.

Train the Trainer

Where a large number of students require training, Cadcorp offer a Train the Trainer experience. Our aim is to effectively present a standard course with hints and tips to enable the student to confidently train others.

Industry/Organisation Specific Courses

Cadcorp work in a number of markets and offer courses to meet the requirements of these. If there are specific needs to your organisation Cadcorp can analyse your requirements, suggest appropriate working processes and build these into an appropriate bespoke agenda.

Go-Live floor walking

Training often takes place prior to an implementation “going live.” Cadcorp can offer a floor walking exercise to boost confidence and answer questions as they arise at the users’ desk.

Other Consultancy Services

Please contact your Cadcorp Account Manager to enquire about any other Consultancy Services.