Welcome to the Esri UK 2015 Training Catalogue

The ArcGIS Platform provides GIS users with the ability to manage, analyse and share geospatial data within and outside their organisation. The Platform gives users access to a complete GIS that integrates desktops and servers, as well as mobile and web applications. It provides the tools and infrastructure required to extend the reach of GIS across an organisation and beyond.

Staying current with the latest ArcGIS technology will give you a competitive edge and help you address the social, economic, business, and environmental issues that shape our world. Participating in our instructor-led training will help you to understand and deploy the components of the platform relevant to your organisation; increasing productivity and enabling sharing and collaboration with colleagues, decision makers, and the general public.

Please take some time to review our training offerings and register for a course today at www.esriuk.com/training-pages or, if you have any further questions please give the team a call on 01296 745504.

I hope to see you on one of our training offerings soon.

Rob Sharpe
Training and Education Service Manager, Esri UK

Find out more about Esri UK Training
For the latest course schedules and detailed descriptions and to register, visit

www.esriuk.com/training-pages

To talk with an Esri UK training consultant, call 01296 745504.
Esri UK Training Options

Scheduled Courses
Education and training are vital to the successful use of GIS Professionals.

Instructor-led traditional classroom courses are taught at Esri UK training facilities throughout the United Kingdom. The traditional classroom offers a rich learning environment that combines modern training facilities, small class sizes, and a policy of one student per computer.

Benefits
- Dedicated time away from the office to focus on learning.
- Hands-on practice with the latest Esri UK software.
- Peer-to-peer learning through class discussions and group activities.
- Opportunity to meet and network with other GIS users
- Instructor available for questions, hints and tips.

Virtual Training
Instructor-Led Virtual training is delivered in real time over the internet and allows you to take a training course from the convenience of your own desktop. Using the internet, web conferencing software and a telephone, we deliver real-time online classes led by expert certified Esri UK instructors. You save on the costs associated with travelling to an off-site training location whilst getting the value from hands-on, instructor-led professional Esri UK training. Participate and collaborate online through product demonstrations, lectures and interactive group activities.

Benefits
- Accessible Esri UK training that is simple, convenient and easy to undertake
- Remove student travel and subsistence costs.
- Reduced time away from the office.
- Hands-on practice with the latest Esri UK software.
- Collaborate with fully Certified Esri and On-line facilitation instructors.
- Ask questions, receive answers, and participate in group activities, communicate with the instructor and other students using the telephone and chat.

On-Site Training
Instructor-led onsite training will enable GIS professionals to extend their knowledge and learning conveniently. Onsite training enables you to run Esri UK training at your organisation's location, for up to 12 employees, to attend any Esri UK standard or bespoke training course, without incurring additional costs for student travel, accommodation and expenses - convenient and cost effective training.

Esri UK will supply the instructor, training materials and our portable training solution which includes a dedicated training machine for every student that comes pre-loaded with the Esri software and training data to be used throughout the course.

Benefits
- Can be conducted at your own offices, therefore saving money on travel and expenses.
- Minimise employees’ time away from their day-to-day roles and responsibilities.
- Informative class discussions - staff can discuss organisational workflows in confidence and ask questions that benefit the entire group.
- A consistent training experience - you learn as a group, acquiring GIS skill sets and practicing recommended workflows together.
- Optional Extra - A focused training experience - the instructor can provide course examples applicable to your industry and GIS solutions.
- Optional Extra - Use ‘real’ data from your organisation in exercises, without compromising security.

one2one Training
Instructor-led one2one training is tailored to your needs to maximise GIS capability within your organisation.

one2one Training helps to provide structure, immediate results and variety of learning approaches, applicable to your specific needs. Direct customer engagement facilitated by our Certified Esri UK instructors will initially draw out your specific requirements and learning objectives. Through one2one training the instructor will deliver within these areas specific to you ensuring that the session is highly focused enabling you to meet your learning goals effectively.

- Highly focused one2one training ensuring you gain the skills needed where you need them.
- Delivered at your desk saving travel costs and scheduled on demand to meet your timescales.
- Helps to build your product confidence and expertise and increases knowledge retention following formal training.
- Tailored to suit your specific ArcGIS workflows, business processes and underlying dataset.
- Provision of best practice guidance to ensure successful use of ArcGIS.

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Plan To Achieve Your GIS Training Goals

When presented with many options, it can be difficult to determine which courses will best meet your needs. Here are some general planning questions and tips to consider as you look through this catalogue:

- What GIS workflows need to be supported?
  Tip: This catalogue's table of contents groups courses by GIS topic and workflow areas.

- What knowledge and skills are needed to support your GIS workflows?
  Tip: Review the Overview and Goals sections of course descriptions to evaluate whether the course covers the required knowledge and skills.

- Who is the course audience?
  Tip: Review the Audience section of course descriptions to verify that the course is appropriate for the individual who needs training.

- What is the time frame for acquiring the required knowledge and skills?
  Tip: For longer project timelines and ongoing staff development needs, check our public schedule at www.esriuk.com/training-pages/find-courses for class dates and locations.
  Tip: If you cannot find a public class within your desired time frame, we can help you arrange a class that meets your needs. Contact us anytime at the telephone number or e-mail address below.

For more help choosing a course or to discuss your training needs with an Esri UK training specialist, call us on 01296 745504, or e-mail training@esriuk.com.

Partner with us.

If you are a manager who wants to equip your team with the GIS skills it needs to accomplish your business goals, we can help you identify the training that will best help you meet those goals.

Esri training consultants are available to do the following:

- Discuss your GIS training needs and make training recommendations for individual job roles
- Create a training plan to help your team acquire the knowledge and skills needed for project success
- Assist with developing a GIS staff development plan that supports your organisation's strategic business goals

To talk with us, call 01296 745504, or send an e-mail to training@esriuk.com.
Maximise Your Investment in Training with Learning Credits

Realise the full benefits of your GIS solution by investing in a programme of training for your organisations GIS professionals.

There are always better, faster and easier ways of achieving more. Learning Credit will help you meet the growing demand for GIS in your organisation and help deliver your organisations GIS requirements.

Benefits of Learning Credit
Investing in training is essential for realising the full benefits of your GIS solution.

Learning Credit from Esri UK offers a flexible way of managing professional ArcGIS development requirements throughout the year.

By purchasing credit, your organisation will receive streamlined access to Esri UK’s industry leading GIS training courses, plus will reduce your administrative and budgetary approval overheads.

- Allocate fixed budget to training.
- Grow the skills of your GIS Professionals.
- Align to your organisations GIS requirements.

Keep your skills and productivity up to date!

How do Learning Credits work?

Learning Credits entitle you to a percentage discount when used to purchase Esri UK training. The percentage discount will depend on the amount of the Learning Credit purchased in a single order, as follows:

<table>
<thead>
<tr>
<th>Credits Purchased</th>
<th>Discount Entitlement</th>
</tr>
</thead>
<tbody>
<tr>
<td>£2500 to £4999</td>
<td>10%</td>
</tr>
<tr>
<td>£5000 to £9999</td>
<td>12.5%</td>
</tr>
<tr>
<td>£10,000 +</td>
<td>15%</td>
</tr>
</tbody>
</table>

Learning Credits can be redeemed against all types of training offered by Esri UK (onsite, customised, virtual, one2one or scheduled) enabling you to tailor courses to meet your business needs.

“The course content was an excellent introduction to this subject - I was a complete beginner and thought that the course started at the right level, and that the difficulty was increased through the day in a way that was easy to follow.”

- Chris Hinton
  Thames Water

Conditions
1. Learning Credits must be used for training undertaken within 12 months of acceptance of your purchase order by Esri UK.
2. Learning Credits may be used to purchase training at Esri UK's published rates only. If course modification is required to meet your training requirements this will quoted for separately and may be drawn from the Learning Credits or charged separately.
3. Learning Credits cannot be used for, or in conjunction with, any future advertised training discounts or training rates or offers separately negotiated.
4. If you choose to use your Learning Credit for onsite or one2one training (at customer’s own premises) the trainer’s expenses and use of the Esri UK portable training solution (laptops with software and licenses installed) will be chargeable. Such additional charges can be drawn from the Learning Credits or charged separately.
5. All values stated are subject to VAT
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An Introduction to ArcGIS Pro
Duration: 1 day

This one day course introduces the next generation desktop application for visualising, editing, and performing analysis using local content, or content from your organisation’s ArcGIS portal. It is designed for existing ArcGIS users. Using ArcGIS Pro, you will learn how to author content in both 2D and 3D and readily share your work with others.

This course will familiarise existing ArcGIS for Desktop users with the new ArcGIS Pro user interface and workflows. You will explore how the new application streamlines workflows and makes sharing your content with others inside and outside your organisation easier.

Audience:
Web developers who want to create JavaScript-based applications that include GIS services and functionality. GIS professionals who want to create JavaScript-based web mapping applications.

Goals:
- Use existing content (such as ArcMap documents and geoprocessing models)
- Identify the components of the ArcGIS Pro interface
- Create a project in ArcGIS Pro
- Use editing tools to create or modify 2D and 3D data
- Use geoprocessing tools in ArcGIS Pro
- Share data from ArcGIS Pro
- Create a Task in ArcGIS Pro

Topics Covered
The course will provide you with the knowledge to:
- What is ArcGIS Pro? An Introduction; ArcGIS Pro and the Platform; Licensing.
- Getting Started: Importing ArcMap documents; Building new projects; Accessing data; Understanding the User Interface.
- 2D and 3D views: 2D Map views; Layer properties; Symbology; Labelling; 3D Scenes; Linked views.
- Analysis and Geoprocessing: Analysis tools; ModelBuilder; Use existing models.
- Editing: Editing workflows; The Edit ribbon; Manage templates.
- Sharing your work: Sharing projects; Sharing maps and layers; Sharing to a Portal; Export maps or layouts.
- Tasks: What is a Task? Task designer.

Prerequisites
Delegates should have attended ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop or have equivalent knowledge.

For more information on this course please visit our website
ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop  
**Duration:** 2 days

This two day course will introduce you to ArcGIS Desktop. It is the first of 3 courses designed to give a solid foundation in using ArcGIS Desktop. This course will introduce you to the main functions of ArcMap. This includes the creation and manipulation of a map document, basic geographic data management, selection and analysis of data and creation of a map for output. If resources allow you will also be introduced to ArcGIS Online and create an online map.

The course uses a combination of lectures, demonstrations and exercises that you will work through over the 2 days. You will be provided with the data and exercises so that you can work through again them in your own time.

It would be highly beneficial if you follow this course with ArcGIS 2 - Essentials of ArcGIS 10.x for Desktop as this course will only introduce you to the basic concepts/functions. ArcGIS 1 and ArcGIS 2 are complimentary courses and to achieve a good level of ArcGIS skills/ knowledge you need to attend both courses. ArcGIS 2 will build on this basic knowledge and introduce you to more tools and functions including the analysis tools.

**Audience:**  
This course is for those who are new to ArcGIS or to geographic information systems in general. It can also be the entry point for those who have used other GIS systems or who are inexperienced ArcGIS users who require an introduction to ArcGIS 10.x.

**Goals:**
- What is ArcGIS? How can ArcGIS be used? The ArcGIS platform; ArcGIS Desktop; ArcGIS Online
- Introduction to geographic data; Vector data & raster data; Coordinate systems
- Data formats; The geodatabase; Shapefiles; Managing data in ArcCatalog
- Open a map; Map document interface, Table of contents, Layers and properties; Context menus; Help
- Adding data: Changing symbols; Popup windows; Catalog & Search windows
- Finding information, Bookmarks; Identify; Find; Selection tools; Measure tools
- Spatial & non spatial tables; Table management; Table joins & relates; Summary tables; Graphs
- Basemap layers; Symbol search; Display symbols using attribute table values; Layer files
- Create labels; Convert labels to annotation; Map annotation
- Selection tools; Select by attribute; Select by location; Select by graphic
- Spatial reference; Create a feature class; Create a Shapefile; eate points from coordinates
- Start an edit session; Editing templates; Create features window; Perform basic edits.

For more information on this course please visit our website

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ArcGIS 2 - Essentials of ArcGIS 10.x for Desktop  
**Duration:** 2 days

This course is the second of a 3 part foundation in ArcGIS Desktop (version 10.x). The ArcGIS 2 course expands on the subjects covered in the ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop course and introduces new functions. These include managing data in a geodatabase, enhanced symbology and labelling options and the use of analysis tools. The creation of map books and publishing a map to ArcGIS Online are also covered.

You will be provided with the data and exercises so that after the course you can work through them again in your own time.

**Audience:**  
This course is for those who have attended the ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop course and who are fairly new to ArcGIS or to geographic information systems but wish to enhance their basic GIS skills.

Please note: We recommend this course for delegates who have already attended our ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop. If you previously attended the ArcGIS 10.x for Desktop Part 1 course which was retired in December 2013 then we would advise that you attend our ArcGIS 10.x for Desktop Part 2 course instead.

**Goals:**
- The file geodatabase; Data management in ArcCatalog; ArcCatalog tabs & options; Metadata; Search
- Create feature classes & feature datasets; import and export data
- Managing raster data; Raster datasets; Raster catalogs; Raster attributes
- Display symbols by text values; Display symbols by numeric values; Numeric value options; Symbology tools and tips; Table of contents labels
- Label toolbar and label manager; Label classes, Label expressions and selections; Working with Maplex
- Manage an edit session; Editing templates; Snapping; Editing tools and context menus; Trace
- Geodatabase annotation; Edit annotation; Map annotation;
- Geoprocessing; Types of analysis; Spatial Joins; Geoprocessing menu; Environments; Search
- Layouts; Data driven pages (map books)
- Online or local data; Create online map & add local data; Open web map in desktop
- Publishing a map; Layer & map packages

For more information on this course please visit our website
ArcGIS 3 - Enhanced Skills for ArcGIS 10.x for Desktop  
Duration: 2 days

This course is the third of a 3 part foundation in ArcGIS Desktop (version 10.x). The ArcGIS 3 course expands on the subjects covered in the ArcGIS 1 Fundamentals of ArcGIS 10.x for Desktop and ArcGIS 2 - Essentials of ArcGIS 10.x for Desktop courses and introduces some more advanced functions. These include setting geodatabase behaviour rules, data adjustment, desktop and online analysis tools and using Modelbuilder. Temporal (time based) data and basic raster/image analysis are also covered.

You will be provided with the data and exercises so that after the course you can work through them again in your own time.

We strongly advise that you have attended both ArcGIS 1 - Fundamentals and ArcGIS 2 - Essentials before attending this course.

Audience:
This course is for those who have attended the ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop and ArcGIS 2 - Essentials before attending this course.

Goals:
This course covers the fundamentals of ArcGIS desktop. Our goal is to enable you to return to your office with the confidence to apply geographical analysis to your work. The course will provide you with the knowledge to:

- Creating a style sheet; Introduction to representations
- Spatial adjustment; georeferencing an image
- Geodatabase attribute behaviour; Sub types and domains; Relationship classes
- Geodatabase spatial behaviour; Geodatabase topology; Networks; Map topology
- Other data types; Dimensions; Terrains; Mosaics
- Create a toolbox; Sharing tools
- Overlay analysis; Spatial patterns
- Create an online map; Run online geoprocessing tools
- What is Modelbuilder; Model types; Add data and tools; Parameters & variables; Running models; Model properties;
- Labels; Model documentation
- Temporal data; Making data time aware; The time slider
- The image analysis window; Image Analysis display; Image analysis processing; Introduction to Spatial Analyst
- (optional) What is Python?; What can you do with Python?; Introducing ArcPy

Introduction to ArcGIS 10.x for Desktop for Healthcare  
Duration: 2 days

This two day course introduces ArcGIS Desktop using healthcare data and examples; teaching you how geography can make management of health care in the community more strategic, patient-focused and cost-effective.

The course uses a combination of lectures, demonstrations and exercises to introduce the ArcGIS tools. You will work through the basic GIS functionality and learn how to use the ArcMap interface efficiently. You will also be introduced to some more advanced techniques using the Network and Spatial Analyst extensions. This will help you, as a healthcare worker, to identify trends and patterns in the community.

Audience:
Health care practitioners new to GIS who are working in a healthcare practice or those who manage health services for their local area.

Goals:
This course covers the fundamentals of ArcGIS desktop. Our goal is to enable you to return to your office with the confidence to apply geographical analysis to your work. The course will provide you with the knowledge to:

- Understand ArcGIS for Desktop and the user interface
- Explore the map and underlying GIS data
- Work with data layers and data formats including tables and Excel
- Manage your data using ArcCatalog and the geodatabase
- Manage tables; table and spatial joins, table relates and summary tables
- Query data using spatial and attribute selection, identification, bookmarks and measure tools
- Symbolise your maps using data attributes and layer files
- Create labels and annotations
- Create data and perform edits using edit tools, templates and context menus
- Perform geoprocessing tasks using ArcToolbox
- Use Network Analyst to find new routes, service areas and closest facilities
- Use Spatial Analyst for hotspot mapping
- Present your data and analysis results using layouts; understand templates and output options
- Next steps and further areas to explore; training paths, online self-help resources, ArcGIS online, Graphs, Reports, Hyperlinks and Layer & Map packages

For more information on this course please visit our website
**Introduction to the Geodatabase 10.x**  
**Duration: 2 days**

This course follows on from the ArcGIS 1 (v10.x) course and is aimed at users who need to understand more about the management and behaviour of a geodatabase. It is a pre-requisite for attending the Introduction to the multiuser geodatabase course. Similar content could also be learned by attending the ArcGIS 2 and ArcGIS 3 courses instead.

The Introduction to the Geodatabase course will take the user through the process of creating and populating a file geodatabase. This will include creating, importing and manipulating vector and raster data. It will also cover creating attribute and spatial validation rules (behaviour) and working with geodatabase annotation.

Some of this behaviour requires an ArcGIS Standard or Advanced licence.

**Audience:**
This course is for those who have attended the ArcGIS 1 course and who wish to concentrate on managing geodatabases. It is a pre requisite for the Introduction to the multiuser geodatabase course which assumes knowledge of basic geodatabase management and behaviour.

**Goals:**
- Examine the different types of geodatabase
- Explore geodatabase design and understand schemas
- Create a file geodatabase
- Create feature datasets and feature classes
- Import and export data
- Convert tabular data to points
- Manage raster data in the geodatabase
- Create dimensions and terrains
- Adjust data to fit into correct position (Georeferencing / Spatial adjustment)
- Understand geodatabase behaviour
- Create subtypes and domains (attribute validation)
- Create a simple relationship class
- Create, use and edit topology (spatial validation)
- Create labels and annotation

For more information on this course please visit our website.

“**The trainer brought everything that was necessary for the course including laptops pre-loaded with ArcGIS technology and company data, ready to go. The high quality training we received will enable us to deliver a new application for the business that will drive our future sales.”**

- Simon Brown,  
  Development Manager, Scania
Desktop - Specialist

Working with the ArcGIS ModelBuilder 10.x
Duration: 1 day

This course introduces students to geoprocessing using the ModelBuilder within ArcGIS desktop software. Students learn the basics of creating a model as well as how to insert parameters, loops and lists of inputs. In addition, students will also learn how to document their work and provide helpful information to the users of their models.

Audience:
This course is for those who are familiar with basic geoprocessing in ArcGIS, but wish to automate analysis of their data and simplify repetitive tasks. Ideally, they would have attended the ArcGIS 1 - Fundamentals of ArcGIS 10.x for Desktop and ArcGIS 2 - Essentials of ArcGIS 10.x for Desktop or have equivalent knowledge and experience. Prior basic knowledge of geodatabases is also assumed (see Introduction to the Geodatabase 10.x for details).

Topics Covered:
- Geoprocessing overview: Environments and options, run geoprocessing tools, create a toolbox and add tools
- Basic model building: Types of Models, model elements, accessing and creating models, adding model elements, supported data types, intermediate data, model navigation, running a model and validating models.
- Properties and documentation: Model properties, diagram properties, model labels, model documentation, model reports, exporting models.
- Improving your models: Use loops in your models, use lists to provide input, use iterations, loop terminator variables, feedback looping, n-memory workspace, run precondition checks.
- Advanced processes: Model only tools, embed models as tools, create a more complex analysis model.
- Project work (optional): Wind farm project, sport and recreation project.

For more information on this course please visit our website

Migrating to ArcGIS 10.x for Desktop
Duration: 1 day

This cost effective hands-on one day training course will support your migration to ArcGIS 10.x for Desktop by covering the major enhancements included within this substantial release. Key areas including licensing, the new user interface, improved data sharing and organisation, new template driven editing environment plus many other new features and enhancements are covered.

Audience:
This course is for existing ArcGIS for Desktop users who require an introduction to the new functions available in ArcGIS 10.x.

Goals:
- Understand ArcGIS 10.x licencing
- Investigate new menus and tools
- Use the new table of contents
- Use the new catalog window
- Create new basemap layers
- Investigate the new table windows
- Use the new search window
- Use the new geoprocessing menu
- Investigate the new editing environment
- Use editing templates
- Explore editing tools
- Use new snapping
- Create data driven pages
- Use dynamic text in layouts
- Access ArcGIS.com and use on-line data
- Create layer and map packages
- Have an awareness of temporal data
- Have an awareness of other new features

For more information on this course please visit our website
Editing in ArcGIS 10.x for Desktop
Duration: 1 day

This 1 day course gives a wide ranging introduction to editing in ArcGIS 10.x. A new editing experience was introduced at ArcGIS 10. This new streamlined editing allows faster and more intuitive editing. It introduced the concept of editing templates along with a new create features window and new snapping. This fast paced course takes the student from basic editing functions through to the advanced editing tools. It also covers editing of annotation and topological data.

The student will use a variety of tools to create new point, line, polygon and annotation data. They will then edit vertices and explore some of the advanced editing functions.

Audience:
This course will appeal to those who are new to Editing in ArcGIS but who have some experience in using ArcGIS Desktop 10.x

It will also be useful to more experienced ArcGIS 9.x users who need to learn about editing in ArcGIS 10.x.

Prerequisites:
Students must have previously attended an ArcGIS introduction course or have regular experience of using ArcGIS desktop. The student must be familiar with the basic functions of ArcGIS

Goals:
- Know how to set up an edit session
- Use construction tools
- Understand the snapping options
- Use standard edit tools
- Use context (pop up) menus
- Use trace, curves, distance-distance, merge
- Use advanced edit tools
- Create and edit annotation
- Customize the toolbars and explore caching
- Create and edit topology
- Investigate ArcToolbox and COGO tools

For more information on this course please visit our website

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Designing Maps with ArcGIS - NEW
Duration: 1 day

This course teaches how to create attractive maps that are easy to interpret and properly designed for their audience and delivery medium, with an emphasis on applying fundamental cartographic design principles. You will learn how to follow a standard cartographic workflow to efficiently produce high-quality maps for print and online use.

Audience:
Cartographers and GIS analysts, specialists, mapping technicians, and others who need to produce maps using ArcGIS software.

Prerequisites - attendance of our ArcGIS 2 - Essentials of ArcGIS 10.x for desktop or equivalent knowledge. Please note that this course is based on ArcGIS for Desktop Advanced.

Goals:
Learn how to:
- Plan a cartographic project.
- Choose appropriate data to support cartographic needs.
- Create appropriate symbology, map elements, and layout designs for a given map project.
- Create labels and annotation that are easy to read by the map’s intended audience.
- Produce effective maps for print and web delivery.

For more information on this course please visit our website.
**Working with CAD Data in ArcGIS for Desktop**  
**Duration: 1 day**

Like GIS data, CAD data is commonly used in design, engineering, and planning workflows. In this course, you will learn how to efficiently display CAD data with GIS layers in ArcGIS, use CAD data directly in ArcGIS geoprocessing and analysis operations, and import CAD data into a geodatabase. Techniques and best practices for data conversion to support integrated CAD/GIS workflows are covered.

**Audience:**  
GIS specialists, technicians, data managers, and other experienced ArcGIS users who need to work with CAD data in ArcGIS  
Experienced CAD users who have basic ArcGIS skills

**Prerequisites:**  
Attendance of our ArcGIS 2- Essentials of ArcGIS 10.x for Desktop or equivalent knowledge is required

**Goals:**  
Learn how to:  
- Accurately display and symbolise CAD data in ArcMap.  
- Convert a CAD feature class to a geodatabase feature class.  
- Prepare geodatabase feature classes for export to a complex CAD drawing file that contains attributed CAD entities.  
- Automate common CAD workflows.

For more information on this course please visit our website

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**Getting Started with the Python Scripting Language**  
**Duration: 1 day**

Python underpins many functions in ArcGIS Desktop 9.3 and 10.x, such as automating geoprocessing tasks, manipulating the map document and fixing broken layers. This virtual training course will teach you the underlying Python scripting language and will provide you with a solid foundation to writing Python scripts. On completing the course you will have the necessary background skills to undertake the relevant Python course for ArcGIS Desktop.

**Audience:**  
It is envisaged that attendees will be GIS professionals who wish to have a solid understanding of the Python language who wish to write geoprocessing scripts within the ArcGIS environment.  
Note: This course is a prerequisite to “Introduction to Geoprocessing Scripts using Python 10.x” where delegates do not have prior knowledge of Python.

**Goals:**  
Those completing this course will be able to:  
- Write Python scripts  
- Understand the Python Scripting Language  
- Be familiar with techniques for debugging code and fixing errors  
- Modularise code

For more information on this course please visit our website
**Introduction to Geoprocessing Scripts using Python 10.x**

**Duration:** 3 days

By automating complex or time-consuming processes using scripts, you can increase efficiencies in GIS workflows and streamline data management. The ArcGIS geoprocessing framework includes a scripting environment, and Python is the scripting language included with ArcGIS.

This course introduces the Python scripting syntax and shows how to use scripts to access and automate geoprocessing tasks. You will also work with ArcPy, an Esri-developed site package for Python that integrates Python scripts into ArcGIS Desktop.

Your instructor will show you how you can take advantage of these new features with particular emphasis on demonstrating the new features which are then consolidated using “hands-on” exercises.

**Audience:**
- GIS analysts, specialists, and other experienced ArcGIS Desktop users who want to understand how to perform geoprocessing using Python
- Data administrators who want to perform batch processing and automation
- Users who want to know how Python complements ModelBuilder
- GIS Server administrators who require an underlying understanding of what a geoprocessing service is made up.
- It is highly recommended that delegates undertake our one day Getting Started with the Python Scripting Language prior to attending this course.

**Prerequisites:**
The Python Scripting language is not taught during this course but knowledge is required prior to attending. You may wish to attend our one day Getting Started with the Python Scripting Language course.

**Goals:**
After attending this course you will have a thorough understanding of how to perform geoprocessing within version 10.x including how to interact with the contents of a map document by using the new ArcPy module; namely:

- Write Python scripts using proper syntax.
- Incorporate cursors, describe objects, and list objects into scripts to manage and update data.
- Understand commonly used ArcPy classes and functions.
- Access geoprocessing tools and specify environment settings in scripts.
- Debug scripts and write code to handle errors.
- Attach a script to a custom tool.
- Use ArcPy classes and geometry objects to create and update features and perform geoprocessing operations.
- Automate the production and exporting of a map series using the ArcPy mapping module.

For more information on this course please visit our website.

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**Mastering ArcPy using Python for ArcGIS for Desktop 10.x**

**Duration:** 3 days

This three day course builds upon the concepts taught in the “Introduction to Geoprocessing Scripts using Python 10.x” course and will delve deeper into the ArcPy site package as well as introduce new ways to distribute your scripts.

The course uses a combination of lectures, demonstrations and code-alongs to show you how to use Python to work with the map document, the geodatabase and how Python scripts can be used when working with ArcGIS for Server Standard and Advanced.

The course will contain a number of exercises for you to work through on the day. You will be provided with the data, demos, tools and exercises that the trainer uses to deliver the course so that you can work through them in your own time.

Please note: This course is recommended for customers using V10.1, V10.2 or V10.3. If you are using V10 you can still attend but not all of the course will be relevant.

**Audience:**
This course is aimed at those who wish to gain a greater understanding of the ArcPy site package and its associated Mapping and Data Access modules. Attendees will also find this course useful if there is a requirement to re-distribute the Python scripts and also if ArcGIS for Server services need to be maintained on a regular basis.

**Prerequisites:**
Attendees should have already attended the “Getting Started with the Python Scripting Language” course or have the equivalent knowledge of python prior to attending this course. Attendance of our “Introduction to Geoprocessing Scripts using Python” course would be advantageous but is not essential.

**Goals:**
- Using Python within ArcGIS for Desktop: Python within labelling expressions, field calculations, enhancements to working with geoprocessing tools
- Advanced geoprocessing error handling: raising exceptions, setting the severity level of an error, setting tool errors and warnings, adding messages, warnings and errors.
- Script tool validation: Working with the ToolValidator class, enable or disable controls, applying filters, working with categories, adding help documentation.
- Working with the arcpy.mapping module: Access the map document and list its contents, managing layers and the Page Layout, printing, exporting and publishing.
- Introducing the arcpy.da module: Using the new cursor classes, work with edit sessions and edit operations, geometry tokens, working with versions, domains and subtypes.
- Learn how to create a Python Toolbox and Tool: Using Python classes and functions, create a Python toolbox, create a Python tool, using the help system to populate toolbox and tool parameters.
- Using Python to administer ArcGIS for Server Standard and Advanced: Introducing ArcGIS for Server; Administering via scripting, publishing services, administering folders.
CrimeAnalyst Extension for ArcGIS 10.x
Duration: 1 day

This one-day course introduces students to the functionality of the Esri UK CrimeAnalyst extension through lectures, product demonstrations and hands-on exercises.

CrimeAnalyst is a suite of tools created specifically for the analysis of crime data collected by public safety organisations and used by crime analysts. It is also used by other public safety services including both fire and ambulance services, for public safety issues and traffic accident analysis.

The CrimeAnalyst extension comprises of ten tools that provide the ability to perform analysis in both space and time, as well as examine repeat victimisation and Journey to crime patterns.

The course provides students with the skills to use the tools with real life crime data and analysis examples. It does not teach criminology.

Audience:
This course is targeted at all new users of CrimeAnalyst. The application is learned through a series of ArcGIS based exercises and scenarios.

Goals:
- Load the CrimeAnalyst extension.
- Data set up and configuration.
- Perform Spatial Analysis using standard ArcGIS tools and specific CrimeAnalyst tools.
- Perform Temporal Analysis using specific CrimeAnalyst tools.

For more information on this course please visit our website.

Working with Network Analyst 10.x
Duration: 2 days

In this course, you will acquire the skills needed to use ArcGIS Network Analyst to find closest facilities, calculate service areas and find the shortest routes using the Network Analyst Extension.

The course will help users to understand the data requirements around Network Analyst and how to use the various solvers to analyse road network based queries.

Audience:
The course will introduce existing users of ArcGIS to the extensive functionality provided by the Network Analyst extension.

Topics Covered:
- Fundamentals of network systems: Directed flow networks (rivers, utilities); Undirected flow networks (roads); Physical and logical network representation; Edges, junctions, and turns; Geometric networks vs. network datasets; Overview of working with a network dataset.
- The Route solver: Route solver concepts; Route solver types; Route outputs and directions reports
- Calculating Service Areas: Analysis settings, options and results
- The Origin-Destination Matrix solver: Analysis settings, options and results
- The Vehicle Routing Problem solver: Analysis settings, options, network analysis classes, applications
- The Location-Allocation solver: Analysis settings, options, problem types, applications
- Advanced network analysis options: Network locations on the network, analysis settings of network locations, time windows, curb approach, hierarchy
- Network dataset connectivity: Network datasets, properties, connectivity groups and policies, Line feature connectivity, point feature connectivity, elevation fields
- Network attributes: Four types of network dataset attributes, assigning network attributes, attributes and edge directionality, Evaluators, parameterised attributes
- Creating and building network datasets: Workflow, modeling penalties for global turns, building a network dataset
- Modifying network datasets: Editing network sources, modifying turn features, editing network dataset properties, rebuilding the network dataset, multimodal network systems
- See examples of how network analysis is accessed in web environments

For more information on this course please visit our website.

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For more information or to arrange a client-site class, call 01296 745504, or send an e-mail to training@esriuk.com

For more information on this course please visit our website.
**Desktop Extensions**

**Geoprocessing Raster data using ArcGIS 10.x Spatial Analyst**
**Duration: 2 days**

This course is designed to introduce ArcGIS 10.x users to the basic methods of raster analysis. Whilst some of the subjects in the course outline may seem complicated, a secondary objective is to explain and help users understand raster terminology and to use the raster commands at a basic level.

**Audience:**
This course is for those who have experience with the ArcGIS 10 interface but need a better understanding of how to analyse raster data.

**Goals:**
- Use a variety of raster analysis tools in the Spatial Analyst Extension
- Set the analysis environment
- Create, Manage and display raster data
- Create a Raster data base
- Write Map Algebra expressions Model hydrology and use the tools
- Experience raster in 3D

For more information on this course please visit our website

**Working with 3D using ArcGIS 10.x for Desktop**
**Duration: 2 days**

At version 10.x, ArcGIS 3D Analyst supports a complete solution for 3D GIS. This course teaches fundamental concepts of 3D GIS as you learn how to visualise, edit, model, and analyse GIS data within a 3D context.

**Audience:**
GIS analysts, planning professionals, geospatial intelligence analysts, and other experienced ArcGIS users who want to create, manage, analyse, and share 3D data.

**Goals:**
- Visualise GIS data in 3D globes and local perspectives.
- Create and import 3D data.
- Edit and maintain 3D vector data in a 3D environment.
- Perform 3D analysis including viewshed, visibility, volumetric, and terrain analyses on vector and raster data.
- Use best practices to optimise 3D views for use on the desktop.
- Visualise temporal data in 3D by enabling time and creating 3D animations.

For more information on this course please visit our website

“I found Parts 1 and 2 of your virtual course to be incredibly beneficial. Being completely new to the GIS world, this has given me an incredibly valuable insight into the software and some of its capabilities. I very much look forward to practicing the techniques...”

- Donna-Marie Durham
Bracknell Forest Homes
3D PathFinder: An Introduction to CityEngine - NEW
Duration: 1 day

The 1 day 3DPathFinder is an Introduction to CityEngine, this is a hands-on practical course. It will show you the very basics of CityEngine and give you an insight into its uses and potential.

Using CityEngine you will learn how to author a simple webscene from 2D and 3D data.

This course will familiarise the user with the CityEngine interface and some workflows. You will explore how CityEngine can ‘3D enable’ your data, to make compelling and interactive 3D web viewable models.

Audience:

Anyone interested in learning the basics of CityEngine, the attendee needs to have some knowledge of 3D and GIS.

Delegates ideally should have some knowledge of the following, SketchUp, ArcGIS Desktop (ArcMap, ArcGlobe and ArcScene).

Goals:

- Identify components of the CityEngine interface
- Create a CityEngine project
- Create a webscene
- Use existing 3D content
- Use existing 2D content
- GIS workflows

Topics Covered:

- What is CityEngine? An Introduction; CityEngine.
- Getting Started: Creating a new project, interface and controls introduction
- Rule file basics: Introduction to CGA rule file creation, step by step hands-on instruction.
- Sharing your work: Creating a webscene and exporting to ArcGIS

For more information on this course please visit our website.

Our CityEngine courses are created and delivered by Garsdale Design Limited - a Silver Partner of Esri UK. www.garsdaledesign.co.uk

3D PathFinder: CityEngine for Professionals - NEW
Duration: 2 days

The 2 day 3DPathFinder is more than just introduction to CityEngine, not only is this a hands-on practical course it will teach you some CGA theory as well as a more advanced understanding of the inner workings of CityEngine.

Using CityEngine you will learn how to author a webscene from 2D and 3D data.

This course will familiarise the user with the CityEngine interface and some workflows. You will explore how CityEngine can ‘3D enable’ you data, to make compelling and interactive 3D web viewable models and how it can fit in to other pipelines and workflows

Audience:

Anyone interested in learning more than just the basics of CityEngine, the attendee needs to have some knowledge of 3D and GIS. It will be desirable for attendees to have some experience of CityEngine either in practice, via Esri Tutorials or by attending the 1 day 3DPathFinder: An Introduction to CityEngine.

Delegates ideally should have some knowledge of the following, SketchUp, ArcGIS Desktop (ArcMap, ArcGlobe and ArcScene).

Goals:

- Identify components of the CityEngine interface
- CGA (rule file) theory and best practice
- GIS workflows
- Create a CityEngine project
- Create a webscene
- Use existing 3D content
- Use existing 2D content
- Introduction to Python scripting in CityEngine
- Advanced workflows outside

For more information on this course please visit our website.

3D PathFinder: CityEngine for Professionals Plus - NEW
Duration: 3 days

The 3 day 3DPathFinder event covers the same content as the 2 day training. The additional day is used for focused work on client data and to find client-specific workflows and solutions.
Data Management

Introduction to Multiuser Geodatabase 10.x
Duration: 2 days

Organisations using ArcGIS Server can deploy a multiuser ArcSDE geodatabase to provide data access and editing capabilities to many users while ensuring the integrity of their central GIS database. This course prepares you to access and edit data stored in a multiuser geodatabase. You will learn fundamental multiuser geodatabase concepts, about editing options that support different multiuser workflows, and techniques to optimise application performance. Course concepts apply to desktop, workgroup, and enterprise ArcSDE geodatabases.

**Audience:**
This course is aimed at people who are new to the ArcSDE multiuser geodatabase and wish to get an understanding of the powerful capabilities of the multiuser geodatabase.

**Note:** Database administrators using V10.1/V10.2/V10.3 who need to install and configure ArcSDE please see our Configuring & Managing the Geodatabase course.

**Goals:**
- By the end of the course you will be able to:
  - Connect to a multiuser geodatabase
  - Apply best practices to optimise client side performance
  - Choose the appropriate editing workflow to meet end user needs
  - Edit non-versioned and versioned data
  - Manage and combine multiple versions

For more information on this course please visit our website

Configuring and Managing the Multiuser Geodatabase V10.x
Duration: 3 days

This three day course focuses on creating and maintaining a multiuser enterprise geodatabase. Enterprise geodatabases are supported on SQL Server, Oracle, PostgreSQL, DB2 and Informix. This course will focus on generic concepts and functionality across all implementations with specific notes for SQL Server, Oracle and PostgreSQL. This is possible given new tools and functionality available in ArcGIS for Desktop for managing the enterprise geodatabase.

Concepts covered in class include creating the geodatabase, connecting to it, loading data, controlling storage options, permissions, database view and query layers, performance tools and locks. These tasks are formed into a workflow that will be followed in the course with the goal that at the end of the course the students will be able to work through the entire workflow from beginning to end.

The course will contain a number of exercises for you to work through. You will be provided with the data and exercises that the trainer uses to deliver the course so that you can work through them in your own time.

**Audience:**
GIS managers and spatial database administrators who need to install and maintain an Enterprise geodatabase.

Students will be expected to have a basic understanding of ArcGIS and RDBMS concepts. Exercises will assume a minimum knowledge in these areas and use fewer scripts than introductory courses.

**Goals:**
- Understand types of geodatabase and licensing.
- Install ArcSDE technology and configure it for your relational database management system.
- Create and connect to a multiuser geodatabase.
- Efficiently load and update data in a multiuser geodatabase.
- Configure storage settings to support your organisations data management workflows.
- Setup user roles and permissions to provide secure data access.
- Apply best practice to optimise geodatabase performance.

For more information on this course please visit our website

“Course content was great, good pace, meant I could easily keep track of content and had plenty of opportunity to clarify on things I did not understand”

Peter Kohler, Royal Borough of Kensington & Chelsea
An Introduction to your ArcGIS Online Subscription  
**Duration: 2 days**

This two day course will introduce you to ArcGIS Online. Through a combination of lectures and demonstrations you will learn how to set up and configure your ArcGIS Online subscription.

We will step through the different methodologies when working with ArcGIS Online within the ArcGIS Platform; recommending workflows for authoring, sharing, managing and working with your GIS data, be they hosted online or within your corporate ArcGIS Server.

The course will contain a number of exercises for you to work through on the day. You will be provided with the data and exercises that the trainer uses to deliver the course so that you can work through them in your own time.

**Audience:**
If you are new to ArcGIS Online, or are looking to understand how it can be better applied within your organisation, this course is for you. We take a ground up approach to understanding ArcGIS Online, starting with first principles before running through advanced concepts.

**Goals:**
This course covers the fundamentals of ArcGIS Online. Our goal is to enable you to return to your office with the confidence to set up and configure you subscription.

The course will provide you with the knowledge to:

- Configure your subscription to reflect your corporate identity
- Load and manage spatial data within your subscription
- Set up users and configure groups
- Author and configure webmaps and web applications, including how to use online geoprocessing tools
- Use ArcGIS Online alongside the wider ArcGIS Platform
- Integrate data stored in your corporate ArcGIS Server with ArcGIS Online
- Publish data and the results of your spatial analyses from ArcMap
- Utilise Maps for Office (Excel and PowerPoint)
- Make use of free mobile applications such as the Collector App
- Understand how to administer your ArcGIS Online subscription; how to manage credits and security

For more information on this course please visit our website

“An excellent couple of days - I certainly have a lot more understanding of the online services and functionality, and the exercises were perfect for building confidence.”
Patrick Hartley - UK Anti-Doping

LaunchKit: ArcGIS Online  
**Duration: 4 days**

The ArcGIS Online LaunchKit programme is a new approach to helping users get the best out of their investment in ArcGIS the ArcGIS Platform. The programme will take you on a journey from first login to utilising web maps and applications. It will help you to deliver real business workflows in an efficient and timely manner.

At the end of the engagement our aim is to ensure you have:

- Been trained in the best practice for ArcGIS Online at the same time as setting up and configure your organisational account
- Maximised your return on investment by ensuring your ArcGIS Online subscription is operational in a timely manner
- The knowledge to be self-sufficient in the continued use of ArcGIS Online through awareness of features, functions and online resources
- Learned how to unlock the spatial data that is held within your organisation in Excel spread sheets using Esri Maps for Office
- Understood how to use ArcMap to author and publish your analyses to ArcGIS Online
- The knowledge to rapidly deploy WebMaps and Web Applications within and outside your business to enable greater collaboration and understanding
- Understood how ArcGIS Online can enable your organisation to benefit from Mobile mapping and data capture
- Developed a ‘next steps action’ plan for the development of your ArcGIS Online subscription

To ensure maximum learning benefit the LaunchKit programme is restricted to a maximum of three delegates. Shorter sessions are available on request.

**Audience:**
The ArcGIS Online (WebGIS) LaunchKit is for those who are new to ArcGIS Online or those that want to learn more about the capabilities of the technology.

**Goals:**
Understand what ArcGIS Online is and how it can help your organisation be more successful

**Topics Covered**
- Overview of ArcGIS Online
- Configuring your ArcGIS Online Subscription
- Defining security
- Loading and managing your data
- Configuring web maps and web applications
- Administering your subscription and managing credits

For more information on this course please visit our website
LaunchKit ArcGIS Online for Local Government
Duration: 4 days

The LaunchKit: ArcGIS programme is a new approach to helping users get the best out of the investment they have made in ArcGIS.

The engagement takes place over 3 days on site, with additional time before and after for requirements gathering, discussion and follow-up.

Specifically aimed at Local Government organisations this LaunchKit will take you on a journey from first login to utilising web maps and applications, both internally and for sharing with the public. It will help you to deliver real business workflows in an efficient and timely manner.

At the end of the engagement our aim is to ensure you have:

- Been trained in the best practice for using ArcGIS Online
- An ArcGIS Online account that is configured, corporately styled and contains a variety of interesting maps and applications
- Maximised your return on investment by ensuring your ArcGIS Online subscription is operational in a timely manner
- The knowledge to be self-sufficient in the continued use of ArcGIS Online through awareness of features, functions and online resources
- Understood how to use ArcMap to author and publish your analyses to ArcGIS Online
- Provide best practices for creating effective map services and web maps
- The knowledge to rapidly deploy WebMaps and Web Applications within and outside your business to enable greater collaboration and understanding
- Best practice guidelines for using British National Grid datasets
- OS Open data basemap services configured and added to your account
- An appreciation of how to create your own Ordnance Survey basemaps
- An understanding of how Markr can be used to add watermarks to your web maps
- The knowledge to create QuestionWhere applications that allow you to publish location based surveys and questionnaires
- Experience of setting up an OpenData portal to quickly and easily share datasets publically
- ArcGIS Online is a versatile technology that lets you solve unique problems quickly and effectively. The LaunchKit for ArcGIS Online provides you with the knowledge and expertise of an Esri UK consultant. You will get up and running with the technology sooner and begin delivering business requirements quickly.

To ensure maximum learning benefit the LaunchKit programme is restricted to a maximum of three delegates.

Audience:
This ArcGIS Online LaunchKit is for those working within a Local Government organisation who are either new to ArcGIS Online or those that want to learn more about the capabilities of the technology.

For more information on this course please visit our website

LaunchKit: ArcGIS Online for a Mobile Workforce
Duration: 4 days

This engagement takes place over 3 days on site, with additional time before and after for requirements gathering, discussion and follow-up.

Specifically aimed at organisations wanting to give mapping capabilities to their field teams this LaunchKit will take you on a journey from first login to utilising web maps and applications, both in the office and on mobile devices. It will help you to deliver real business workflows in an efficient and timely manner.

At the end of the engagement our aim is to ensure you have:

- Been trained in the best practice for using ArcGIS Online
- An ArcGIS Online account that is configured, corporately styled and contains a variety of interesting maps and applications
- Maximised your return on investment by ensuring your ArcGIS Online subscription is operational in a timely manner
- The knowledge to be self-sufficient in the continued use of ArcGIS Online through awareness of features, functions and online resources
- Understood how to use ArcMap to author and publish your analyses to ArcGIS Online
- Provide best practices for creating effective map services and web maps
- The knowledge to rapidly deploy WebMaps and Web Applications within and outside your business to enable greater collaboration and understanding
- Best practice for creating and preparing your data for use on mobile clients to help streamline data collection in the field
- A detailed understanding of Collector and how it can be used for mobile data capture
- An appreciation of how your web maps can be configured to allow offline mobile capabilities
- Been trained to setup and configure Dashboards to report on the activities of your field teams

To ensure maximum learning benefit the LaunchKit programme is restricted to a maximum of three delegates. Shorter sessions are available on request.

Audience:
The ArcGIS Online (WebGIS) LaunchKit is for those who are new to ArcGIS Online or those that want to learn more about the capabilities of the technology.

Goals:
- Understand what ArcGIS Online is and how it can help your organisation be more successful
- Define security on your ArcGIS Online subscription
- Understand how to administer your subscription and manage credits
- Set up data and webmaps that can be used within Collector App for both online and offline editing

For more information on this course please visit our website

Book Today! Visit www.esriuk.com/training-pages or call 01296 745 504
ArcGIS for Server: Sharing Content on the Web (Introduction to ArcGIS for Server 10.1/10.2/10.3)  
Duration: 2 days

This course teaches how to deliver geographic information so that it can be effectively used by colleagues, decision-makers, and non-GIS audiences. You will learn how to share your maps, data, and workflows by creating and publishing high-performing GIS services that can be accessed from desktop computers, web browsers, and mobile devices.

Note: This course is for people who have ArcGIS Server 10.1, 10.2 or 10.3 - if you are running V10 please attend our Introduction to ArcGIS for Server V10 course. Due to major architecture changes within ArcGIS Server at V10.1/V10.2/V10.3 this is not suitable for customers with V10.

Audience:  
If you belong to anyone one of the following categories of user then you will benefit from attending the ArcGIS for Server: Sharing GIS Content on the Web 10.1/10.2 /10.3 course:

- GIS analysts, specialists, and other experienced ArcGIS users who want to share GIS resources in web maps and web mapping applications.
- Developers who want to incorporate GIS services and web maps into custom applications.
- Anybody who wants to learn how to work with ArcGIS Online
- To attend the course it is expected that attendees will have completed the Introduction to ArcGIS 10 for Desktop Part 2 (Fast track) or have equivalent knowledge.

Goals:  
After completing this course you will be able to:

- Author and publish map services to share your authoritative GIS data.
- Create and publish image services to provide fast access to imagery.
- Design and build a map cache to maximize map service performance.
- Publish a geoprocessing service to share your GIS models and analysis results.
- Publish a feature service to enable data editing in a web application.
- Share GIS resources as stand-alone services and in web maps and web-mapping applications.

For more information on this course please visit our website

Migrating to ArcGIS 10.1/10.2 /10.3 For Server  
Duration: 2 days

This course provides a roadmap you can follow to confidently and successfully migrate to ArcGIS 10.1/10.2 for Server. ArcGIS 10.1 for Server introduces major architecture changes that support richer functionality, simpler installation and administration, and better performance and scalability. You will learn what these changes mean for your existing system and get the information and hands-on experience you need to implement a suitable migration strategy for your organisation.

Audience:  
Administrators of a version 10.0, 9.3.1, or 9.3 ArcGIS for Server system who need to install, manage, and support an ArcGIS 10.1 for Server system.

Experience configuring and managing a version 10.0, 9.3.1, or 9.3 ArcGIS for Server system is required. Candidates are also recommended to attend the 2 day Introduction to ArcGIS for Server course.

Goals:  
After completing this course, you will be able to:

- Choose an appropriate migration pattern based on your resources and organizational needs.
- Prepare for migration by documenting and backing up existing services, applications, map caches, and security configurations.
- Install ArcGIS 10.1 for Server, deploy one or more GIS servers, and connect GIS servers to a web server.
- Migrate existing caches, services, security configurations, applications, and supporting resources to an ArcGIS 10.1 for Server system.
- Apply the new workflow to efficiently publish high-performing services.
- Implement new features that enhance the end user and administrative experience.

For more information on this course please visit our website
ArcGIS 4: Deploying your Geographic Data using ArcGIS
Online & ArcGIS for Server
Duration: 2 days

This two day course is designed for GIS users who want to share geographic content in web maps and web mapping applications.

ArcGIS supports sharing geographic content across multiple platforms so it is accessible to everyone who needs it, when they need it, however they want to access it. This course teaches how to turn your authoritative GIS data, workflows, and maps into ArcGIS services that can be published to ArcGIS Online, ArcGIS for Server, or Portal for ArcGIS; easily embedded in web maps and websites; accessed by desktop, web, and mobile applications; and deployed to servers on secure internal networks. You will learn how to determine which sharing option is appropriate for your needs.

Audience:
GIS analysts, specialists and other experienced ArcGIS users who want to share geographic content in web maps and web mapping applications.

Developers who want to incorporate GIS services and web maps into custom applications.

Prerequisites: Completion of ArcGIS 2: Essentials of ArcGIS for Desktop or equivalent knowledge.

Goals:
- Author and publish map services to share your authoritative GIS data.
- Publish feature services to enable editing of GIS data over the web.
- Create and publish image services to provide fast access to imagery.
- Publish geoprocessing services to share your GIS models and analysis results.
- Share GIS resources as stand-alone services and in web maps and web mapping applications.

For more information on this course please visit our website

ArcGIS for Server: Site Configuration & Administration V10.x
Duration: 3 days

Designed for administrators, this course teaches how to successfully install, configure, and manage an ArcGIS for Server system that enables GIS content sharing across the enterprise or on the web. You will learn the ArcGIS for Server architecture and apply recommended workflows to configure ArcGIS Server sites and manage GIS services, applications, data, and users. Techniques and best practices to ensure system performance and security are emphasized.

Audience:
IT administrators, system administrators, GIS web administrators, and others responsible for installing, managing, or supporting an ArcGIS for Server system.

Goals:
- Successfully install ArcGIS for Server and create an ArcGIS Server site.
- Configure the Web Adaptor component to integrate your ArcGIS server with a web server.
- Publish services that have the capabilities required for your applications.
- Plan, create, and update a cache for high-performing map and image services.
- Tune and monitor services to ensure high performance.
- Implement security for your site and services that meets the needs of your organisation

For more information on this course please visit our website
Introduction to ArcGIS for Server 10
Duration: 2 days

In this course, you will acquire the skills needed to share GIS content on the Web or across the enterprise. You will learn a workflow to publish maps, imagery, geoprocessing models, and feature templates for use in Web applications that support visualization, analysis, and editing of GIS resources.

The features within ArcGIS 10 for Server are also explored. These include the new feature service which is used as the foundation for editing; working with mosaic datasets and learning how to publish them as an image service; and how “time” is enabled within the web environment.

Your instructor will show you how you can take advantage of these existing and new features with particular emphasis on instructor led demonstrations which are further consolidated using “hands-on” exercises.

Audience:
If you belong to anyone one of the following categories of user then you will benefit from attending the Introduction to ArcGIS Server 10 course:

- GIS analysts, specialists, and other experienced ArcGIS Desktop users who are new to ArcGIS Server 10 who wish to learn about its architecture, capabilities and client applications
- Developers who need to understand ArcGIS Server functionality in order to incorporate GIS Services into custom applications
- Anybody who wants to find out about V10 of ArcGIS Server

Goals:
After attending this course you will have a thorough understanding of the functionality and options contained within ArcGIS Server 10; namely:

- Investigate the client and server components of ArcGIS Server architecture
- Understand the processes behind authoring, publishing and consuming GIS Services
- Learn how to configure an existing model and publish it as a geoprocessing service
- Discover how to perform editing over the web using the new Feature service
- Work with visualisation services (map and image services) and learn how to make your application “time” aware.
- Listen to how standard GIS services can be made OGC compliant (WMS, WFS, WCS, KML)
- Investigate which is the most appropriate Web API to build your ArcGIS Server web sites
- Build and use existing web applications that consume GIS Services using the ArcGIS API for JavaScript over the web using the new Feature service

For more information on this course please visit our website
Introduction to JavaScript - NEW  
Duration: 1 day

JavaScript is the technology of choice to develop responsive and interactive web applications. Within the Esri platform you will need to use JavaScript to create stunning web mapping applications in the ArcGIS API for JavaScript. In this course you will get an introduction to the JavaScript language as well as an understanding of development environments, debugging techniques, syntax and code structures. After completing this course you will have the necessary prerequisites to attend the Building web applications using the ArcGIS API for JavaScript course.

Audience:
This course is for anyone who wants to start writing JavaScript code to control web applications. It is not specifically dealing with the ArcGIS API for JavaScript and does not require any GIS or coding background.

Note: This course, or equivalent experience are prerequisites to attend the Developing Web Apps with the ArcGIS API for JavaScript course.

Goals:
On completion of the course you will:
- Be able to write syntactically correct JavaScript code
- Have an understanding of development environments for JavaScript development
- Work with developer tools and debugging techniques
- Appreciate some options for structuring web application code
- Be able to find more resources to help you with JavaScript projects

Topics Covered
- The JavaScript development environments: Developer tools in development environments, debugging
- JavaScript Syntax: Comments, variables, data types, operators and more
- JavaScript control structures: Condition checking, loops and error handling
- JavaScript and HTML: JavaScript to control HTML, Document Object Model (DOM)
- JavaScript and CSS: JavaScript and styling
- JavaScript and JS toolkits: DOJO, ArcGIS API for JavaScript

For more information on this course please visit our website

Developing Web Apps with the ArcGIS API for JavaScript - NEW  
Duration: 3 days

This course teaches you how to use ArcGIS API for JavaScript to efficiently build high-performing, engaging web applications that meet the needs of their intended audience. You will learn about the classes available in the API, how to use them in a JavaScript-based web application, and how to incorporate ready-to-use content and ArcGIS services to enhance your applications. This course focuses on functionality available with ArcGIS 10.3 services, but many course concepts apply to ArcGIS 10.2 and 10.1 services.

Audience:
JavaScript developers who want to create applications that include ArcGIS services and functionality

Goals:
- Build, test, and deploy a web application using ArcGIS API for JavaScript.
- Use the ArcGIS platform to incorporate ready-to-use content and online services that allow end users to visualise, query, analyse, and edit data.
- Configure API components to meet user requirements.
- Apply best practices to ensure high performance and proper communication between the client application and web server.

Topics Covered
- Introduction to the ArcGIS API for JavaScript - Getting started with the API, Adding ArcGIS Online basemaps, ArcGIS API for JavaScript Web Optimiser, create a custom build using the web optimiser
- Working with the Map - Adding data to the map, combining layers, adding layers programmatically, using widgets, working with events
- Working with tasks and widgets - Working with GIS services, working with secured GIS resources, task-implementation workflow, geocoding and searching, exporting a web map
- Applying queries to data - Displaying temporary data in the map, understanding graphics, understanding symbols, drawing graphics on the map, using the API to answer questions, displaying query results, setting up the Query object, executing a query
- Visualising and rendering data - understanding renderers, renderer visualisation properties, applying renderers to layers, generating renderers, working with dynamic layers, working with LayerDrawingOptions
- Using tasks and widgets for analysis - Achieving custom analysis, using the Geoprocessor, working with geoprocessing parameters, executing a geoprocessing task, using geoprocessing services & tasks, performing measurements, using the Geometry service
- Editing features - understanding web editing scenarios, confirming web editing requirements, editing with feature services, adding editing geometry, add feature editin to an application, editing attributes, editing attachments

For more information on this course please visit our website
Esri Technical Certification

The Esri Technical Certification Program gives you the opportunity to distinguish yourself by achieving a technical benchmark in your area of expertise, whether you’re a GIS professional using ArcGIS software, a developer of GIS applications, or a GIS enterprise systems administrator.

Promoting GIS Success
The Esri Technical Certification Program is designed to create a community of qualified individuals who are proficient in best practices using Esri software. Establishing an industry-recognised benchmark will provide the following benefits:

- Improve success with GIS by creating a more qualified work force
- Help organisations maximise their investment in Esri technology by employing a work force certified in using best practices
- Assist hiring organisations in assessing candidate skills and abilities
- Aid in creating departmental and organisational staff development plans

Taking an Exam
Esri Technical Certification exams are offered at more than 5,000 locations around the world through Pearson VUE, Esri’s global testing partner. The computer-based exams consist of 85–95 multiple-choice questions and take approximately two hours to complete. Exams are currently offered in English only.

For detailed information about the program and each certification, visit www.esriuk.com/certification.

To register for an exam, visit www.pearsonvue.com/esri.

* Certification is in development
Why choose Esri UK for your GIS training?

The only certified Esri trainers in the UK.

Esri UK trainers are an exceptional group of highly qualified and experienced individuals. Experts in their subject they are Esri Certified and receive regular training on the latest updates of our products, so you can have total confidence in their ability to deliver the most up to date GIS skills and knowledge.

All have excellent approaches to training delivery and many are TAP accredited (the industry standard for IT Training delivery). They are the only trainers who have direct access to the unique expertise of Esri UK staff from Professional Services and Technical Support - who are in turn backed-up by Esri Inc.

Esri UK Training Accreditations

- Esri ArcGIS Accredited trainers in the UK
- Esri UK is a TAP® (Training Application Performance) Partner
- Microsoft Certified Gold Partner
- CPD accreditation through our association with the AGI (Association for Geographic Information)
- Professional trainers who meet the TAP standard and are MCT (Microsoft Certified Trainer) and CompTIA CTT+ (Certified Technical Trainer) certified and are members of the Institute of IT Trainers (IITT)

All training courses delivered by Esri UK can be used towards your continued professional development (CPD) with the Association for Geographic Information or, to help you gain and maintain your Chartered Geographer (c.Geog) status with the Royal Geographical Society.
Our Trainers

Trainer: Dr Guenter Grimm

Background: Guenter has worked as an Esri Trainer for 10 years, authoring and delivering a wide portfolio of courses. He has also spent time as a developer in the Esri UK product team. Guenter was one of the first European GIS users to achieve Esri Inc’s ArcGIS Desktop Professional certification. Prior to joining Esri UK he was a Senior Training Consultant at the SAS Institute.

Key Skills and Experience: Alongside course delivery Guenter is our lead technical author. Guenter trains across the ArcGIS Platform with a primary focus on the delivery of ArcGIS for Server, JavaScript API, Network and Spatial Analyst courses. In 2012 Guenter delivered a major training programme for Natural England; successfully migrating 400+ employees to ArcGIS for Desktop. His work with Natural England is on-going.

Trainer: Mark Tudball

Background: Mark has worked for Esri UK as a Training Consultant since 2001. He is responsible for authoring and delivering our ArcGIS for Desktop training courses. He also performs Training Needs Analysis.

Prior to joining Esri UK Mark worked as a training instructor at the Royal School of Military Survey (RSMS). He has 18 years’ experience as a photogrammetrist (mapping). During this time he worked on and led projects relating to photogrammetric and mapping tasks, 3D model development, GPS tracking, project management and quality control.

Key Skills and Experience: With a focus on ArcGIS for Desktop courses Mark is often found delivering our Off-the-Shelf training packages on scheduled courses or on customer sites. He also delivers on site One2One training and develops customer specific training where required. He is a Certified Technical Trainer (CTT+) and is a member of the Learning & Performance Institute (MLPI).

Mark has worked on a number of customer specific projects including working closely with Severn Trent water to support their system upgrade to ArcGIS 10.x and ArcFM. This engagement included a full training needs analysis to ensure a focussed training programme was developed and delivered.

Trainer: Ed Morris

Background: Ed has over 20 years’ experience in the geographic information industry across academia and consultancy. For the past five years he has worked as a trainer with Esri UK. Prior to joining the training team Ed spent a number of years in Esri UK’s Professional Services department. His “hands-on” knowledge provides learners with real world experiences of problem solving and implementing “best-practice” across the ArcGIS Platform.

Key Skills and Experience: Ed has detailed knowledge in customising ArcGIS for Desktop through ArcObjects and also with the Python scripting language. He is the author of our “Getting Started with the Python Scripting Language” and “Mastering ArcPy using Python for ArcGIS for Desktop” courses, and specialises in the spatial analysis side of the Platform. Ed has achieved a number of Esri certifications, namely: ArcGIS for Desktop Developer Associate; ArcGIS for Desktop Professional and ArcGIS Enterprise Admin Associate.

A keen public speaker, Ed has presented at a number of Esri UK user conference sessions and also at the Esri European DevSummit Ed designed and delivered a major ArcGIS for Server Enterprise training programme for one of Esri UK’s largest defence customers. This involved training nearly 80 users how to manage and serve geographic data over the web.
Our Trainers

**Trainer:**
Alan Sampson

**Background:**
Alan brings a wealth of experience to the role having spent 24 years in the IT arena. Previously a Geodatabase, RDBMS and data interoperability expert in Esri UK’s Professional Services Alan has regularly assisted the training team to deliver specialist data management courses to our customers.

**Key Skills and Experience:**
Alan is the author of our ‘An Introduction to your ArcGIS Online Subscription’ and ‘An Introduction to ArcGIS Pro’ courses.

Alan has worked with Esri UK’s customers across the Government and Utilities space most notably with the Office of National Statistics and National Grid, ensuring that their business critical Geodatabases are managed efficiently and rigour. He ensures that knowledge is transferred to customers in a clear and concise manner, enabling them to be self-sufficient in the maintenance of their systems.

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**Trainer:**
Colin Willers

**Background:**
Colin was brought up in East Africa, studied in the UK to become a Land Surveyor, returning to Kenya where he worked for a survey company out of Nairobi, working on projects throughout Africa and the Middle East. He then worked for a London based Geophysical exploration, company, using photogrammetry to make maps from air photos. The projects in London were mostly to do with Africa and involved mineral and ground water prospecting.

**Key Skills and Experience:**
Colin has been involved in digital mapping and GIS for the last 20 years, and has worked on many projects using a wide range of Esri products. Since joining Esri UK as a trainer Colin has worked on the customisation, preparation and delivery of GIS training, specialising in ArcGIS for Desktop, the Spatial Analyst and 3D Analyst extensions.

Colin delivers our introductory and advanced ArcGIS for Desktop courses. He also delivers our courses in the Spatial, 3D and Network Analyst extensions, often turning his expertise in these areas to answer specific customer requirements during one-to-one engagements.

Recently Colin has been working closely with a Police Authority to deliver a bespoke course tailored to meet the needs of their crime analysts.

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**Training Needs Analysis**

Identifying who in the organisation needs education and training and what approach will be best suited to the staff concerned is a crucial component to a successful project and to maximise the value from the GIS investment. Esri UK follows a methodical analysis of those people who require training in an organisation to support a new GIS installation. An Esri Training Needs Analysis provides:

- Documentation of the necessary skills to fulfil the roles and responsibilities for the organisation or project
- Skills Gap Analysis for staff identified for the required roles Evaluation of optimum education and training approach
- Identification of suitable courses and/or design of other programmes
- Analysis of Costs and Return on Investment

To discuss a Training Needs Analysis please contact the Esri UK Training Department on 01296 745504 or email training@esriuk.com.
Severn Trent Water

**The Customer**
Severn Trent Water is one of the largest utility companies in the UK, delivering fresh water and providing sewerage services. It serves over eight million customers from the Bristol Channel to the Humber and from mid-Wales to the East Midlands.

**The Challenge**
GIS in Severn Trent (GISST), delivers asset data, map views and geospatial analysis capabilities to over 4,500 employees and underpins almost all of the organisation’s core business processes. New legislation (October 2011) required that water companies take over responsibility for private drains and sewers across the UK.

**Solution**
Severn Trent Water anticipated that its network of assets could increase by a massive 68%, from 54,000 km to 91,000 km, as a direct result of this act of parliament. To help it capture data about all of these new assets, the organisation decided to upgrade its GISSTupdate application and migrate it to the latest version of Esri’s ArcGIS technology.

**Benefits**
The training provided, was very cost effective for Severn Trent Water. It enabled the company to provide highly relevant, customised training for less than the cost of sending 30 employees on standard courses. The company also saved money by eliminating the need to reimburse employees’ travel and accommodation expenses.

“The training has helped us to find and reinforce best practice ways of working.”
- Steve Allen
GIS Manager

Scania

**The Customer**
Scania is a major supplier of trucks, buses, coaches and engines for industrial and marine applications. The company also provides a wide range of complementary and ancillary support services through over 90 service centres across the country.

**The Challenge**
Through developing the use of business intelligence products to improve companywide decision making, Scania identified that geographic information systems (GIS) technology needed to be better used as a web-based solution to support its sales team and senior managers. Scania decided to invest in training with Esri UK, to help its employees get up to speed as quickly as possible with their GIS capability.

**Solution**
Scania decided to take advantage of Esri UK’s bespoke, on-site training service, working with Esri UK to design a two-day course that would cover precisely those skills and techniques that the team would need in order to successfully develop its new GIS solution. The company also arranged for its own business data to be used in examples and exercises during the training course.

**Benefits**
The onsite training course allowed Scania to maximise the training budget for the necessary employees plus reduce cost of travel and expenses. Onsite Training allowed for the development of a highly relevant, tailored training to develop the skills required across ArcGIS Desktop, product extensions and ArcGIS Server.

“The trainer brought everything that was necessary for the course including laptops pre-loaded with ArcGIS technology and company data, ready to go. The high quality training we received will enable us to deliver a new application for the business that will drive our future sales.”
- Simon Brown
Development Manager
Case Studies

Everything Everywhere

The Customer
Everything Everywhere is the UK’s largest communications company, providing mobile and fixed-broadband communications services to more than 27 million customers through the Orange and T-Mobile brands.

The Challenge
To understand the customer journey through deeper insight into customer data. To learn how to apply Esri GIS to meet the company’s specific data analysis requirements.

Solution
Esri UK ArcGIS for Desktop Software. A one-day standard Esri UK training course, to cover user basics. An additional, fully bespoke five day course, delivered at a pace to suit the business.

Benefits
Greater insight into customer behaviour and needs. The means to apply the technology to current business problems, guided by an expert in GIS.

“Other areas of the business are now using the GIS, and people are very excited about what the technology can do. They love the way it helps them to visualise what’s happening around the country. Over the past year, the GIS has become part of our daily vocabulary.”

- Jen Wells, Multi Channel Geographic Development Reporting Manager

London Borough of Harrow

The Customer
Harrow is a London Borough in the North West of the capital, bordering Hertfordshire. The London Borough of Harrow Council serves a population of over 230,000 people across an urban area of 50.47 km².

The Challenge
Harrow Council has developed a suite of web-based services for citizens that are powered by geographic information system (GIS) technology from Esri UK. These systems were in need of updating however the council did not have the skills or knowledge to develop this in-house. Harrow Council decided that the time had come to replace the existing system with a new integration solution that could be managed and developed internally. This identified a training need.

Solution
Luke Studden identified the training need to be able to use the programming language Python. Having never used Python before, Studden signed up for Esri UK’s three day scheduled course entitled ‘Introduction to geoprocessing scripts using Python’.

Benefits
Within days of completing Esri UK’s training, Luke Studden had successfully redeveloped the council’s LLPG Integrator from scratch, using ArcGIS technology and Python. By creating this solution himself – and not outsourcing the project to a third party contractor – Studden saved the council a significant sum of money, which could potentially have run into many thousands of pounds. The investment in training from Esri UK therefore represented exceptional value for money.

“The course was extremely comprehensive. It covered all the basics, but also enabled me to develop some quite advanced skills. By the end of the two days, I had all the knowledge I needed to go away and re-develop the council’s LLPG integrator myself.”

- Luke Studden, LLPG custodian
Case Studies

Canal and River Trust

The Customer
The Canal & River Trust is the charity responsible for conserving, restoring and enhancing 2,000 miles of canals and rivers in England and Wales.

The Challenge
The Trust relies on a number of prime contractors who are appointed to carry out civil and mechanical engineering, diving, dredging, property maintenance, vegetation management and other vital tasks. The challenge during the course of each year was to keep these contractors up to date with the latest maps and real-time information.

Solution
To meet the needs of its contractors as quickly and easily as possible, the Trust decided to utilise Esri's ArcGIS Online solution, implemented with a JumpStart programme from Esri UK.

Benefits
Following the launch of the ArcGIS Online solution, contractors gained 24/7 access to up-to-date data about the canals and rivers of England and Wales. This improvement in the availability of information could ultimately help to improve health and safety for contractors.

"The JumpStart programme was extremely helpful. After just two days, we had set up all our maps, loaded over 60 data sets and sent out invites to 96 potential users." - Sarah Temple-Phillips, GIS specialist

Natural England

The Customer
Natural England advises the government on the best ways to protect and improve England’s natural environment. It works with farmers, landowners, businesses and local groups to ensure the sustainable use of land and sea, and encourages people to enjoy their surroundings.

The Challenge
Natural England was founded in 2006 from the merger of the Countryside Agency, English Nature and the Rural Development Service. Each of these three organisations used different geospatial information system (GIS) solutions to support many programmes of work. Natural England inherited not only a mix of disparate GIS applications, but also distinct teams of employees with different skill sets.

Solution
Natural England commissioned Esri UK to design and deliver a bespoke, on-site training course for ArcGIS Desktop. The organisation wanted Esri UK to repeat the course on different dates and at different locations, so that its employees could choose to attend whenever and wherever it was most convenient.

Benefits
Natural England is all set to reap the benefits of consolidation. Employees can move easily between departments and roles, share data and work more collaboratively – without encountering skills barriers. Natural England will also no longer have to license and manage multiple systems which will deliver sustainable, long-term financial savings.

"Esri UK designed and delivered bespoke training to meet the needs of over 400 employees with diverse skills and job roles. The course was cost effective, professional and relevant to our business." - Phillipa Swanton, Principal Adviser, Geographic Literacy
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Esri UK Training

Are your GIS staff equipped for project success?

What resources are available to meet specific training goals?

Need to stretch your training budget?

Do you have a plan of action to achieve the full business benefits of GIS?

A staff development plan is a tool to help you ensure that staff skills are leading edge, and it can also help you prepare for technology implementations, simplify budget processes, and clarify the critical contribution of GIS in your organisation. An Esri UK training consultant is available to help you create a plan that reflects your organisation’s goals and needs.

To talk with an Esri UK training consultant, call 01296 745 504, or send an e-mail to training@esriuk.com.