Dear Colleague:

The release of ArcGIS 10.1 signals a major development in the way geographic information will be accessed and managed by geographic information system (GIS) professionals and their organizations in the years to come. It will give GIS professionals a complete GIS that further integrates desktops and servers, as well as mobile and web applications, and provides organizations with the additional tools and infrastructure they need to extend the reach of their existing GIS.

To support the release of ArcGIS 10.1, we have created a new instructor-led training curriculum that provides a broad foundation for you to learn and immediately apply recommended workflows to author, share, and use GIS resources across the ArcGIS system. Courses will help you speed up your adoption of new technology; be more productive; and more easily share and collaborate with colleagues, decision makers, and the general public.

Staying current with the latest technology will give you a competitive edge and help you address the social, economic, business, and environmental issues that shape our world.

I encourage you to review Esri’s learning opportunities and register for a course today.

Warm regards,

Jack Dangermond

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Esri Technical Certification Program

The Esri Technical Certification Program is designed to create a work force highly skilled in applying Esri best practices to advance the goals of its members’ organizations. The program consists of 13 certifications recognizing expertise in desktop, developer, or enterprise use of ArcGIS. Learn more on page 22 or at esri.com/certification.

Find Out More about Esri Training

For the latest class schedules and detailed course descriptions and to register, visit esri.com/coursecatalog.

To talk with an Esri training consultant, call 1-800-447-9778, extension 1-5757.
Getting Started with ArcGIS

At 10.1, the ArcGIS system makes it easier than ever for individuals and organizations to find, use, create, and share maps; collaborate in groups and communities; and deploy GIS resources wherever they are needed.

The following courses are designed to help you get started with ArcGIS for Desktop:

- ArcGIS I: Introduction to GIS—For those with no prior GIS education or experience, this course uses ArcGIS desktop and online components to teach the fundamental GIS concepts and skills needed to create and work with GIS maps.

- ArcGIS II: Essential Workflows—For those who have an introductory-level knowledge of GIS concepts and limited ArcGIS experience, this course teaches how to efficiently author, share, and use geographic information and maps.

- ArcGIS III: Performing Analysis—For more experienced ArcGIS users who want to extend their GIS analysis skills beyond the basics, this course helps students learn how to create, execute, automate, and share analysis workflows and results.

The courses below will help you get started with ArcGIS for Server:

- ArcGIS for Server: Sharing GIS Content on the Web—For GIS professionals who create geographic content and want to share GIS resources as standalone services and in web maps and web mapping applications

- ArcGIS for Server: Site Administration and Configuration—For IT and GIS web administrators who will be responsible for managing and configuring a new ArcGIS for Server implementation

- Migrating to ArcGIS 10.1 for Server—For IT and GIS administrators who have experience managing and supporting a previous version of ArcGIS for Server

- Configuring and Managing the Multiuser Geodatabase—For database administrators and GIS data managers who manage geographic data assets stored in a multiuser ArcSDE geodatabase.
About Esri Training Options

Esri instructor-led and self-paced training options teach GIS problem-solving skills and best practices to accomplish GIS tasks and workflows. Developed by education specialists with expertise in Esri products, our courses help thousands of GIS professionals each year.

Instructor-led courses are taught online in real time and at learning centers around the United States. See the map on the inside back cover for locations. Self-paced courses are available from the Esri Training website 24/7.

Train your team together.
When multiple staff will benefit from the same course, arranging a class to train them together can be the most cost-effective way to prepare for a new project or technology migration. We can send an instructor to your facility, or you can hold a class at one of our facilities. When team members are geographically disbursed, an instructor-led online class eliminates the need for travel and related expenses.

Get the most out of your group learning experience.
When you hold a class to train multiple staff together, you can supplement the class with one or more days of client coaching. Client coaching enhances the learning experience by providing extra time to review and practice course concepts in the context of your organization’s specific workflows with an instructor’s guidance.

To discuss arranging a class, call 1-800-447-9778, extension 1-5757, or send an e-mail to GIStraining@esri.com. To view the latest instructor-led class schedules and self-paced training options, visit esri.com/coursecatalog.

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Instructor-Led Training</th>
<th>Self-Paced Training</th>
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<tbody>
<tr>
<td>Hands-on software exercises with data</td>
<td>✓</td>
<td>✓ *</td>
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<tr>
<td>Esri software provided for use during class</td>
<td>✓</td>
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<td>Use of your local installation of Esri software</td>
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<td>Software demonstrations showing real-world</td>
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<td>application of course concepts</td>
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<td>Course workbook (to review and practice concepts</td>
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<td>and workflows after class)</td>
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<tr>
<td>Taught by certified instructor with expertise in</td>
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<td>the course subject matter</td>
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<td>Real-time interaction with instructor and other</td>
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<td>students</td>
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<td>Opportunity to ask questions during class and get</td>
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<td>immediate answers</td>
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<td>Accessible 24/7 from anywhere</td>
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<tr>
<td>Short, focused learning on specific tasks</td>
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<td>✓</td>
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<tr>
<td>No travel required to attend</td>
<td>✓ **</td>
<td>✓</td>
</tr>
<tr>
<td>Certificate of completion awarded</td>
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<td>✓</td>
</tr>
</tbody>
</table>

* Applies to web courses

** Applies to instructor-led online classroom courses
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 catalog:

• What GIS workflows need to be supported?
  Tip: This catalog’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 Who Should Attend 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 esri.com/ilt 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 training specialist, call us at 1-800-447-9778, extension 1-5757, or e-mail GIStraining@esri.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 organization’s strategic business goals

To talk with us, call 1-800-447-9778, extension 1-5757, or send an e-mail to GIStraining@esri.com.
Course Design

Instructor-led format improves user success.

Esri instructor-led courses take an immersive, experiential approach to learning. Their design incorporates proven adult-learning principles and focuses on interaction and skills application to ensure that learners acquire relevant and directly applicable workplace knowledge and skills.

The course format includes the following:

• Interactive discussions with learners contributing real-world experiences
• Demonstrations and hands-on individual exercises
• Facilitated group exercises
• Activities and problem-solving scenarios that encourage peer-to-peer learning

Interactive learning is a proven approach that works well in both traditional and online classrooms. In an Esri instructor-led online course, learners participate in small group activities in virtual breakout rooms, including writing on group whiteboards, chatting, polling, and probing. Learners can interact with each other and the instructor during class demonstrations and exercises. Instructors can even shadow learners’ computers to monitor progress during individual exercises or to check in on groups and facilitate discussion.

High-caliber instructors are committed to learner success.

All Esri instructors have achieved Esri technical certification and CompTIA CTT+ certification. CompTIA CTT+ is an international certification that covers core instructor skills, including preparation, presentation, communication, facilitation, and evaluation, in both a traditional and online classroom environment.

Esri instructors have the flexibility to adapt how they present course material based on the audience composition, skill level, and professional interests of each class. The course format stretches their creativity and teaching skills in a way that’s exciting and beneficial for learners.

Self-paced format supports independent, flexible learning.

Esri self-paced e-learning options are designed to supplement and extend instructor-led courses; provide focused training for specific GIS tasks; and support those who need immediate, just-in-time training. Our web course design features interactive conceptual material, demonstrations, and hands-on exercises designed to help learners immediately apply concepts and reinforce skills. To view available web courses, go to esri.com/coursecatalog.
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ArcGIS I: Introduction to GIS
Two days (16 hours)—$1,010

Overview
This course teaches what GIS is and what you can do with it. Working with various components of the ArcGIS system, you will create GIS maps, explore and analyze the data behind the maps, and apply methods to easily share your maps. By the end of the course, you will have a solid understanding of how GIS maps and ArcGIS tools are used to visualize real-world features, discover patterns, obtain information, and communicate that information to others.

Who Should Attend
Individuals who do not have any prior GIS education or workplace experience with GIS

Goals
After completing this course, you will be able to
- Understand what GIS is, what it can do, and how others are using it
- See how your organization can benefit from a GIS
- Create a basic GIS map
- Work with different types of geographic data
- Access information about geographic datasets and features
- Apply a systematic approach to analyzing data to find patterns and relationships

Prerequisites: None

ArcGIS II: Essential Workflows
Three days (24 hours)—$1,515

Overview
In this course, you will acquire fundamental skills needed to author, share, and use geographic information and maps across the ArcGIS system. You will learn how to efficiently find, explore, manage, and analyze geographic data and create informative maps that showcase your work. The course covers a variety of techniques to effectively share GIS maps and resources with decision makers, stakeholders, and the public.

Who Should Attend
GIS professionals and others who have an introductory-level knowledge of GIS concepts and limited ArcGIS experience

Goals
After completing this course, you will be able to
- Use ArcGIS software and content to create high-quality maps that combine data from different sources
- Organize, create, and edit geographic data so that it is accurate and up-to-date
- Manage, symbolize, and label map layers to support visualization and data exploration
- Design an attractive page layout for maps that will be printed
- Apply a standard workflow to analyze GIS data and solve spatial problems
- Deliver maps and analysis results to multiple platforms so they are accessible to other ArcGIS users and non-GIS users

Prerequisites: Yes*

Introduction to ArcGIS Desktop for Mining Geoscience
Three days (24 hours)—$1,515

Overview
This course introduces the ArcGIS tools used to accomplish mining geoscience workflows. In course exercises, you will develop fundamental ArcGIS skills and apply them to solve mining geoscience problems such as detecting mineral occurrence patterns, locating prospective deposits, and identifying optimal areas for mineral exploration.

Who Should Attend
Geoscientists in the mining industry who need to perform GIS mapping and analysis

Goals
After completing this course, you will be able to
- Understand how GIS is used for geoscience applications
- Create presentation-quality geologic maps and graphs
- Generate and view statistics for geoscience data
- Perform GIS analyses to plan efficient mineral exploration activities
- Build a geodatabase to store geologic, geochemical, geophysical, and raster data
- Develop a model that automates geoprocessing tasks used to locate prospective deposits

Prerequisites: Yes*

Using ArcGIS for Geospatial Intelligence: Data Fundamentals
Two days (16 hours)—$1,010

Overview
To produce reliable intelligence products, analysts must understand essential concepts related to the accuracy and appropriate uses of geospatial data. This course teaches those concepts. You will learn how to collect and combine geospatial data from a variety of sources, create new data, and prepare data for accurate visualization and analysis.

Who Should Attend
Geospatial intelligence analysts working in defense, intelligence, and homeland security agencies

Goals
After completing this course, you will be able to
- Identify, procure, and prepare relevant geospatial datasets for analysis
- Assess the level of error in a geospatial dataset
- Assign a spatial reference to support accurate measurement, navigation, and analysis of data
- Understand the usefulness and limitations of various raster formats and derive new data from raster sources, including imagery
- Create vector data from tabular data, imagery, and existing cartographic products
- Integrate skills learned in class into the analysis process for producing actionable intelligence

Prerequisites: Yes*
Cartography and Map Production

Designing Maps with ArcGIS
Two days (16 hours)—$1,010

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

Who Should Attend
Cartographers and GIS analysts, specialists, mapping technicians, and others who need to produce maps using ArcGIS software

Goals
After completing this course, you will be able 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

Prerequisites: Yes*

Cartography with Esri Production Mapping
Two days (16 hours)—$1,010

Overview
Esri Production Mapping provides cartographic tools for managing map products, creating high-quality, high-volume map products and generating reference grids based on product specifications. In this course, you will work with Esri Production Mapping cartographic tools to create and manage map documents in Product Library, symbolize data with the Views and Visual Specifications tools, work with geographic representations, and create dynamic tables in the layout.

Who Should Attend
GIS technicians and spatial data and project managers who need to create cartographic products using Esri Production Mapping

Goals
After completing this course, you will be able to
- Manage cartographic production with Product Library
- Create cartographic data such as grids and graticule layers
- Symbolize data using the Views and Visual Specifications tools
- Edit cartographic features using representations
- Create and manage layouts and elements such as dynamic tables
- Print, publish, and export cartographic products
- Maintain cartographic products

Prerequisites: Yes*

Introduction to Esri Production Mapping
Five days (40 hours)—$2,525

Overview
Esri Production Mapping is an extension to ArcGIS for Desktop developed for high-volume database production, maintenance, and quality control. In this course, you will learn to load and edit data using Esri Production Mapping tools, perform data QC using ArcGIS Data Reviewer for Desktop, create and manage maps with Product Library, and manage workflows using ArcGIS Workflow Manager.

Who Should Attend
GIS specialists, technicians, spatial data and project managers, and other experienced ArcGIS users who need to manage and publish accurate data and cartographic products using standardized and repeatable workflows

Goals
After completing this course, you will be able to
- Load data using the Data Loader
- Edit and attribute features using Esri Production Mapping
- Run automated data validation checks
- Symbolize features using the Views and Visual Specifications tools
- Edit cartographic representations using the representation tools
- Create and manage map documents with Product Library
- Create and process jobs using ArcGIS Workflow Manager

Prerequisites: Yes*

Introduction to Esri Defense Mapping
Five days (40 hours)—$2,525

Overview
Esri Defense Mapping is used for high-volume database production, maintenance, and quality control. This course teaches how to load and edit data using Esri Defense Mapping tools, perform data QC using ArcGIS Data Reviewer for Desktop, create and manage maps with Product Library, and manage workflows using ArcGIS Workflow Manager. This course is typically offered as a client-site class.

Who Should Attend
Experienced ArcGIS users who need to produce data and maps under defense or military specifications and standards using Esri Defense Mapping

Goals
After completing this course, you will be able to
- Load data using Data Loader
- Edit features using Esri Defense Mapping tools
- Run automated data validation checks
- Symbolize features using the Views and Visual Specifications tools
- Edit cartographic representations using the representation tools
- Create and manage map documents with Product Library
- Create and process jobs using ArcGIS Workflow Manager

Prerequisites: Yes*

*For up-to-date course descriptions, prerequisites, pricing, and schedules, visit esri.com/coursecatalog.
Cartography and Map Production

Introduction to Esri Nautical Solution
Three days (24 hours)—$1,515

Overview
Esri Nautical Solution is a data management and cartographic production application that combines cartographic editing tools, database models, nautical symbols and styles, S-57 data editing tools, validation rules, and workflow management components to enable a streamlined data editing and chart production environment for nautical users. In this course, you will learn how to use Esri Nautical Solution to produce and maintain standards-compliant nautical products including S-57 and hard-copy charts.

Who Should Attend
Individuals familiar with nautical principles and charting who will be involved in creating and maintaining nautical products from a database

Goals
After completing this course, you will be able to
- Load nautical product data
- Edit and attribute S-57 feature objects
- Run automated data validation checks
- Understand symbology representations and implement them with the Visual Specifications tool
- Create reference grids
- Export nautical products

Prerequisites: Yes*

Cartography with Esri Nautical Solution
Three days (24 hours)—$1,515

Overview
This course teaches how to produce and maintain aeronautical charts inside an Aeronautical Information Exchange Model (AIXM) 4.5/5.1-based Aeronautical Information System (AIS). You will learn about data management tools, as well as more advanced annotation and editing tools, to support the aeronautical chart production process. Techniques for symbolizing data, working with geographic representations, and creating dynamic text and tables in a layout are also covered.

Who Should Attend
Individuals familiar with aeronautical principles and charting who will be involved in creating and maintaining aeronautical charts inside an Aeronautical Information Exchange Model (AIXM) 4.5/5.1-based Aeronautical Information System (AIS) using Esri Aeronautical Solution. You will learn how to use Esri Aeronautical Solution to produce and maintain aeronautical charts inside an Aeronautical Information Exchange Model (AIXM) 4.5/5.1-based Aeronautical Information System (AIS). You will learn how to set up the production environment, design grids, and configure the workflow environments for ArcGIS Workflow Manager and Task Assistant Manager.

Goals
After completing this course, you will be able to
- Manage map documents that contain multiple data frames
- Generate reference grids
- Manage labels and create annotation
- Appropriately utilize representations, feature outlines, and intersecting layer masking
- Perform cartographic edits such as geometric effects, representation overrides, and free representations
- Manage page layout, surround elements, and marginalia
- Create a source diagram
- Export to various raster formats

Prerequisites: Yes*

Introduction to Esri Aeronautical Solution
Three days (24 hours)—$1,010

Overview
This course teaches how to produce and maintain aeronautical charts inside an Aeronautical Information Exchange Model (AIXM) 4.5/5.1-based Aeronautical Information System (AIS) using Esri Aeronautical Solution. You will learn about data management tools, as well as more advanced annotation and editing tools, to support the aeronautical chart production process. Techniques for symbolizing data, working with geographic representations, and creating dynamic text and tables in a layout are also covered.

Who Should Attend
Individuals familiar with aeronautical principles and charting who will be involved in creating and maintaining aeronautical charts from a database

Goals
After completing this course, you will be able to
- Set up the AIS database
- Edit and attribute aeronautical features using Feature Builder
- Create and manage cartographic features for chart production
- Use the aeronautical annotation editing tools
- Build and configure smart aeronautical surround elements
- Track and review changes in the database with Change Reporter and ArcGIS Data Reviewer for Desktop
- Use the workflow management tools ArcGIS Workflow Manager and Task Assistant Manager

Prerequisites: Yes*

Configuring Esri Aeronautical Solution
Two days (16 hours)—$1,010

Overview
This course teaches how to configure Esri Aeronautical Solution to produce and maintain aeronautical charts inside an Aeronautical Information Exchange Model (AIXM) 4.5/5.1-based Aeronautical Information System (AIS). You will learn how to set up the production environment, design grids, and configure the workflow environments for ArcGIS Workflow Manager and Task Assistant Manager.

Who Should Attend
Individuals familiar with aeronautical principles and charting who will be involved with supporting an aeronautical charting system using Esri Aeronautical Solution

Goals
After completing this course, you will be able to
- Set up extraction queries for cartographic feature creation
- Configure the Visual Specifications tool for charting products
- Configure and manage masking rules using Masking Rule Manager
- Create batch jobs for quality control
- Configure the change detection process for ArcGIS Data Reviewer for Desktop
- Configure job types and workflows for ArcGIS Workflow Manager
- Configure Task Assistant Manager for ArcMap task-oriented processes

Prerequisites: Yes*
Introduction to Esri Business Analyst Desktop
Two days (16 hours)—$1,010

Overview
This course teaches how to integrate geography and business intelligence data to enable better business decision making. You will learn how to use the powerful Business Analyst Desktop tools and extensive data package to analyze site locations, customers, markets, territories, and competitors—helping you uncover patterns, trends, and opportunities in your customer and sales data.

Who Should Attend
Marketing analysts and others with little or no GIS experience who need to better understand their customers and markets

Goals
After completing this course, you will be able to
- Define a study area for analysis
- Create and manage balanced sales and service territories and regions to better handle resources and minimize cannibalization
- Create trade areas based on customer and site locations to accurately evaluate their potential
- Conduct drive-time and market penetration analyses to determine the maximum travel time or distance customers might drive
- Perform customer profiling and prospecting analyses to generate detailed information about your customers and find others like them
- Produce reports and maps to present analysis results to decision makers

Prerequisites: None

Hydrologic and Hydraulic Analyses Using ArcGIS
Two days (16 hours)—$1,010

Overview
This course presents GIS techniques used for terrain analysis, hydrologic and hydraulic (H&H) characteristics extraction, numerical model input/output, modeling process automation, and result mapping. The course focus is the functionality that GIS provides to H&H modeling, not on performing H&H analyses.

Who Should Attend
H&H and GIS professionals who support H&H analyses

Goals
After completing this course, you will be able to
- Use triangulated irregular networks (TINs) and Esri Grids to represent terrain surfaces
- Implement GIS as a spatial and temporal integrator
- Create hydrologic statistical modeling such as National Stream Statistics (NSS) and StreamStats
- Create hydrologic physical modeling including Hydrologic Modeling System (HMS) and Geospatial Hydrologic Modeling Extension (GeoHMS)
- Create hydraulic modeling using River Analysis System (RAS) and Geospatial River Analysis System Extension (GeoRAS)
- Perform floodplain mapping

Prerequisites: Yes*

ArcGIS III: Performing Analysis
Two days (16 hours)—$1,010

Overview
Advance your foundational ArcGIS skills by learning how to obtain reliable results from different types of GIS analysis. You will apply a standard workflow to efficiently solve spatial problems using a variety of ArcGIS tools and vector, raster, and temporal data. Techniques to effectively share your analysis workflows and results are covered. This course is taught using ArcGIS for Desktop Advanced, and some course exercises use tools provided in the ArcGIS Spatial Analyst extension.

Who Should Attend
GIS analysts, specialists, and others who manage or conduct GIS analysis projects

Goals
After completing this course, you will be able to
- Choose appropriate data, methods, and tools to plan, execute, and document a given analysis project
- Automate analysis tasks using geoprocessing models
- Create a weighted suitability model to select the optimal location for a new site
- Apply spatial statistics to examine distribution patterns and identify hot spots
- Model temporal data to analyze and visualize change over time
- Share analysis results so they are accessible and repeatable

Prerequisites: Yes*

*For up-to-date course descriptions, prerequisites, pricing, and schedules, visit esri.com/coursecatalog
Editoring Data with ArcGIS for Desktop
Two days (16 hours)—$1,010

Overview
To produce GIS maps and analysis results that support informed decision making, accurate data is essential. This course teaches methods for accurately creating and maintaining data stored in a geodatabase. You will learn a recommended workflow for data automation and practice with tools and techniques that help ensure data integrity during editing.

Who Should Attend
GIS technicians, specialists, and other experienced ArcGIS users who need to create and maintain their organization’s geographic data

Goals
After completing this course, you will be able to
- Apply a standard editing workflow to manage updates to your GIS database
- Efficiently create and edit feature geometry and attributes
- Solve common data alignment issues
- Maintain spatial relationships among features using topology

Prerequisites: Yes*

Data Editing with Esri Production Mapping
Two days (16 hours)—$1,010

Overview
Esri Production Mapping is an extension to ArcGIS for Desktop used for high-volume database production, maintenance, and quality control. In this course, you will learn how Esri Production Mapping is configured to enhance geodatabase validation using Product Library. You will also gain proficiency with the editing, attribution, and data loading tools included with Esri Production Mapping.

Who Should Attend
GIS technicians, spatial data managers, and project managers who need to create and maintain production data using Esri Production Mapping

Goals
After completing this course, you will be able to
- Recognize how Esri Production Mapping enhances ArcGIS for Desktop editing workflows
- Configure and use Product Library to extend geodatabase validation
- Batch load data using Data Loader
- Edit and attribute features using Esri Production Mapping tools
- Streamline ArcGIS for Desktop editing workflows

Prerequisites: Yes*

Quality Control Using ArcGIS Data Reviewer for Desktop
Two days (16 hours)—$1,010

Overview
This course teaches how to use ArcGIS Data Reviewer for Desktop to find, track, and correct spatial and attribute errors in GIS data. You will learn about the more than 40 automated checks that you can configure and run to ensure data accuracy, and you will work with visual review tools to document data anomalies and errors.

Who Should Attend
GIS technicians and spatial data and project managers who need to perform data quality checks using ArcGIS Data Reviewer for Desktop; anyone working with Esri Production Mapping, Esri Defense Mapping, or a stand-alone license of ArcGIS Data Reviewer for Desktop

Goals
After completing this course, you will be able to
- Understand quality assurance (QA)/quality control (QC) concepts
- Run automated data checks
- Create a batch job for performing a cumulative data review
- Perform a visual review of GIS data
- Track and manage errors in the Reviewer table
- Work with correction and verification modes

Prerequisites: Yes*

Understanding ArcGIS Workflow Manager
Three days (24 hours)—$1,515

Overview
This course introduces you to the ArcGIS Workflow Manager extension and the importance of job management in your organization. You will learn how to use the tools included with ArcGIS Workflow Manager and how to configure the system to meet your business requirements.

Who Should Attend
Managers and others who want to develop and enforce standard, repeatable GIS workflows within their organization using ArcGIS Workflow Manager

Goals
After completing this course, you will be able to
- Describe the architecture of ArcGIS Workflow Manager and available configuration options
- Describe and set up the database and system tables
- Query, create, assign, and locate jobs
- Edit properties and attributes of jobs
- Execute workflows and track job status and feature modification history
- Understand and set up the ArcGIS Workflow Manager security model

Prerequisites: Yes*
### Building Geodatabases

**Three days (24 hours)—$1,515**

**Overview**
This course teaches the essential concepts needed to efficiently create a geodatabase, add data to it, and realistically model the real-world spatial relationships inherent to your data. You will learn about unique geodatabase features that help ensure data integrity over time and see why the geodatabase is the preferred format for storing and managing geographic data. Course concepts apply to file-based and multiuser geodatabases. This course is taught using ArcGIS for Desktop Advanced.

**Who Should Attend**
GIS data managers, analysts, specialists, data technicians, database administrators, and others who need to manage and maintain data stored in a geodatabase

**Goals**
After completing this course, you will be able to
- Access GIS data stored in file-based geodatabases, multiuser geodatabases, and GIS servers
- Create an appropriate geodatabase structure to organize data for efficient storage, display, and editing
- Add rules and behaviors to ensure the spatial and attribute integrity of geographic data
- Jump-start geodatabase design using a template data model
- Create a geodata service to share a geodatabase with desktop, web, and mobile users

**Prerequisites:** Yes*

### Configuring and Managing the Multiuser Geodatabase

**Three days (24 hours)—$1,515**

**Overview**
This course prepares you to successfully deploy a multiuser geodatabase to manage your organization’s critical geographic data assets. You will learn about the multiuser geodatabase architecture and installation options and how to configure the geodatabase for efficient data storage and delivery of data access and editing capabilities to many users. While course exercises use the enterprise geodatabase, many course concepts also apply to workgroup geodatabases.

**Who Should Attend**
Spatial database administrators and GIS data managers who need to create, configure, and manage a multiuser ArcSDE geodatabase

**Goals**
After completing this course, you will be able to
- 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 organization’s data management workflows
- Set up user roles and permissions to provide secure data access
- Apply best practices to optimize geodatabase performance

**Prerequisites:** Yes*

### Implementing Versioned Workflows in a Multiuser Geodatabase

**Three days (24 hours)—$1,515**

**Overview**
A successful multiuser editing environment requires a sound versioning workflow that minimizes disruption to editors, ensures the integrity of GIS data, and integrates well with existing business workflows—all while maintaining optimal database performance. This course explores a variety of versioned editing workflows and examines how versioning decisions impact data accuracy and database performance.

**Who Should Attend**
GIS database managers or administrators who need to set up and manage a multiuser editing environment

**Goals**
After completing this course, you will be able to
- Deploy a versioning workflow that meets your organization’s needs
- Efficiently load data into a versioned feature class
- Manage multiple geodatabase versions
- Monitor and maintain database performance in a versioned editing environment

**Prerequisites:** Yes*

### Distributing Data Using Geodatabase Replication

**Two days (16 hours)—$1,010**

**Overview**
Geodatabase replication is a powerful way to extend access to GIS data stored in a multiuser geodatabase throughout organizations and into the field. This course teaches how to implement geodatabase replication to support efficient, secure enterprise data management workflows.

**Who Should Attend**
GIS database managers and administrators who need to incorporate geodatabase replication into their organization’s business and versioned editing workflows

**Goals**
After completing this course, you will be able to
- Determine the number and type of replicas needed to support your organization’s GIS workflows and applications
- Use database management system (DBMS) queries and ArcGIS tools to create and manage replicas
- Plan and implement an efficient synchronization strategy for your data distribution architecture

**Prerequisites:** Yes*

*For up-to-date course descriptions, prerequisites, pricing, and schedules, visit esri.com/coursecatalog.
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—Jon Cole, Aquatic Manager

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Arc Hydro: GIS for Water Resources
Three days (24 hours)—$1,515

Overview
This course presents the Arc Hydro data model and tools and shows how to implement them using a series of real-world examples. You will learn the basic principles of the Arc Hydro data model, how to extend it, and how the Arc Hydro tools manage and use the data model.

Who Should Attend
Those interested in ArcGIS water resource applications who want to implement the Arc Hydro data model and tools

Goals
After completing this course, you will be able to
- Understand and extend the Arc Hydro data model
- Understand core and advanced Arc Hydro tools functionality
- Combine Arc Hydro data structure and tools to solve realistic water resource problems
- Extend Arc Hydro tools to create custom functionality
- Integrate external models into Arc Hydro

Prerequisites: Yes*
Migrating to ArcGIS 10.1 for Server
Two days (16 hours)—$1,010

Overview
This course provides an overview of workflows you can follow to successfully migrate to ArcGIS 10.1 for Server. ArcGIS 10.1 for Server introduces a new services architecture based on widely adopted web standards. 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 organization.

Who Should Attend
Experienced administrators of an ArcGIS 10 for Server or ArcGIS Server 9.3.1 or 9.3 system who need to install, manage, and support an ArcGIS 10.1 for Server system

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 new workflows to efficiently publish high-performing services
• Use new features to enhance the end-user and administrative experience

Prerequisites: Yes*

Implementing Esri Geoportal Server
Two days (16 hours)—This course is offered as a client-site class and as part of Esri Geoportal Server Jumpstart Packages. Please contact portal@esri.com for information.

Overview
Esri Geoportal Server is a free and open source product for implementing local, regional, national, and global spatial data infrastructure (SDI) portals. It provides the framework, discovery, tools service preview, administration, publishing, and resource synchronization modules needed for a successful geoportal. This course teaches how to install, customize, and use a geoportal using Esri Geoportal Server.

Who Should Attend
• Technical staff from an Esri partner, distributor, or distributor partner
  (After completing the course, Esri partners, distributors, and distributor partners may offer implementation services for Esri Geoportal Server.)
• GIS data managers, analysts, specialists, data technicians, database administrators, and other experienced users who need to store and manage geospatial resources

Goals
After completing this course, you will be able to
• Install an Esri Geoportal Server instance
• Understand how Esri Geoportal Server supports metadata standards
• Integrate a geoportal into an enterprise GIS architecture
• Know how to participate in the Esri Geoportal Server open source project

Prerequisites: Yes*

System Architecture Design Strategies
Three days (24 hours)—$1,515

Overview
This course covers GIS architecture design strategies and infrastructure architecture alternatives that support successful enterprise operations. You will learn comprehensive guidelines for planning and selecting the right system solution to meet your organization’s needs and performance validation and system capacity planning techniques for enterprise GIS deployments.

Who Should Attend
Senior architecture consultants, GIS technical architects, GIS managers, project managers, software developers, and IT and system administrators who need to understand system architecture and hardware capacity planning criteria or identify performance problems with existing GIS environments

Goals
After completing this course, you will be able to
• Identify and collect user workflow requirements for an enterprise GIS
• Describe software alternatives for each identified user workflow
• Recognize factors that impact GIS software performance and scalability
• Identify network bandwidth requirements and remote client performance expectations
• Describe architecture alternatives for meeting your system deployment needs
• Understand how platform technology affects ArcGIS performance and capacity
• Apply best practices to incorporate security throughout system design and deployment
• Develop a target enterprise hardware design to support capacity-planning needs

Prerequisites: Yes*

Written by System Architecture Design Strategies course author Dave Peters, this Esri Press book can complement the course in helping organizations implement, integrate, and scale up a GIS at a lesser cost.
ArcGIS Customization and Development

Introduction to Geoprocessing Scripts Using Python
Three days (24 hours)—$1,515

Overview
Python scripts can reduce the time spent on complex or repetitive tasks, enabling GIS staff to be more productive. This course teaches how to create Python scripts to automate tasks related to data management, feature editing, geoprocessing and analysis, and map production using ArcGIS. You will also learn how to share your Python scripts so your key GIS workflows are accessible to others.

Who Should Attend
GIS specialists, analysts, data processors, and others who want to automate ArcGIS tasks and workflows

Goals
After completing this course, you will be able to
• Write Python scripts using proper syntax
• Incorporate cursors, describe objects, and list objects into scripts to manage and update data
• Use ArcPy classes and geometry objects to create and update features and perform geoprocessing operations
• Use the ArcPy mapping module to automate map document and layer management
• Apply techniques to ensure valid script syntax and error handling
• Create custom script tools and geoprocessing packages to share your scripts

Prerequisites: Yes*

Programming ArcGIS for Desktop Using Add-ins
Two days (16 hours)—$1,010

Overview
Add-ins provide a simple and lightweight approach to most common customizations and can be shared easily via e-mail, network shares, and public download. In this course, you will learn best practices for building add-ins to deliver custom ArcGIS functionality that supports your organization’s GIS workflows and tasks. Course exercises can be completed using C# or Visual Basic .NET.

Who Should Attend
Developers and GIS professionals with experience in .NET programming (C# or Visual Basic .NET) and ArcGIS for Desktop software

Goals
After completing this course, you will be able to
• Build add-ins to extend the ArcGIS for Desktop interface with custom buttons, tools, and dockable windows
• Create a custom solution that allows users to query map features and get information about them
• Include functionality from an ArcGIS for Desktop extension in an add-in
• Choose an appropriate add-in deployment option for your needs
• Apply digital signatures to manage add-in security
• Migrate code from a previous release to an ArcGIS 10.1 for Desktop add-in

Prerequisites: Yes*

Building Desktop Applications Using ArcGIS Runtime SDK for Java
Two days (16 hours)—$1,010

Overview
This course teaches how to get started using the new ArcGIS Runtime Software Development Kit (SDK) environment to create lightweight applications that feature rich, interactive maps and GIS tasks. You will learn the ArcGIS Runtime SDK architecture and supported functionality, then apply that knowledge to build an application that allows desktop users to work with local and online geographic data and services. Licensing considerations and best practices for application deployment are covered.

Who Should Attend
Java developers who want to create lightweight desktop applications that showcase ArcGIS 10.1 services and functionality

Goals
After completing this course, you will be able to
• Develop and test an application using ArcGIS Runtime SDK for Java
• Incorporate packages and services that allow end users to visualize, edit, query, and analyze data
• Display map features and task results with different symbology
• Package and deploy a lightweight application

Prerequisites: Yes*

Building Desktop Applications Using ArcGIS Runtime SDK for WPF
Two days (16 hours)—$1,010

Overview
This course teaches how to get started using the new ArcGIS Runtime Software Development Kit (SDK) environment to create lightweight applications that feature rich, interactive maps and GIS tasks. You will learn the ArcGIS Runtime SDK architecture and supported functionality, then apply that knowledge to build an application that allows desktop users to work with local and online geographic data and services. Licensing considerations and best practices for application deployment are also covered.

Who Should Attend
Microsoft Windows Presentation Foundation (WPF) developers who want to create lightweight desktop applications that showcase ArcGIS 10.1 services and functionality

Goals
After completing this course, you will be able to
• Develop and test an application using ArcGIS Runtime SDK for WPF
• Incorporate packages and services that allow end users to visualize, edit, query, and analyze data
• Display map features and task results with different symbology
• Package and deploy a lightweight application

Prerequisites: Yes*
Building Web Applications Using ArcGIS API for Flex
Two days (16 hours)—$1,010

Overview
This course teaches how to use ArcGIS API for Flex and the Adobe Flex platform to develop high-performing, engaging web applications. You will learn about components available in the Flex platform, how to code a Flex-based application, and how to incorporate ArcGIS services and ArcGIS Online content to enhance applications. While this course focuses on functionality available with ArcGIS 10.1 services, many course concepts are applicable to ArcGIS 10.0 and 9.3.1 services.

Who Should Attend
Web developers who want to create Flex-based applications that include ArcGIS services, GIS professionals who want to create Flex-based web mapping applications

Goals
After completing this course, you will be able to
• Enhance a Flex application by embedding a map that features ArcGIS Online content
• Add components that support interactive map navigation and dynamic rendering of map layers
• Incorporate data queries to select map features and display attribute results
• Leverage printing and geoprocessing tasks
• Add feature editing functionality to support web-based editing
• Deploy an optimized Flex-based web application

Prerequisites: Yes*

Building Web Applications Using ArcGIS API for Silverlight
Two days (16 hours)—$1,010

Overview
This course teaches how to use ArcGIS API for Silverlight and the Silverlight platform to efficiently develop high-performing, engaging web applications. You will learn about the objects available in the API, how to write code for a Silverlight-based application, and how to incorporate ArcGIS services and ArcGIS Online content to enhance your applications. While this course focuses on functionality available with ArcGIS 10.1 services, many course concepts are applicable to ArcGIS 10.0 and 9.3.1 services.

Who Should Attend
Web developers who want to create Silverlight-based applications that include ArcGIS services, GIS professionals who want to create Silverlight-based web mapping applications

Goals
After completing this course, you will be able to
• Build an application that includes an ArcGIS.com web map
• Integrate GIS data from a variety of web services
• Add components that support interactive map navigation and dynamic display of map layers
• Incorporate query tasks to allow users to select map features and access their attributes
• Add functionality that allows users to perform geoprocessing tasks and display the results
• Add functionality to support web-based data collection and editing

Prerequisites: Yes*

Building Web Applications Using ArcGIS API for JavaScript
Two days (16 hours)—$1,010

Overview
This course teaches how to use ArcGIS API for JavaScript and Dojo Toolkit to develop high-performing, engaging web applications. You will learn about objects available in the API, how to code a JavaScript-based application, and how to incorporate ArcGIS services and ArcGIS Online content to enhance your applications. While this course focuses on functionality available with ArcGIS 10.1 services, many course concepts are applicable to ArcGIS 10.0 and 9.3.1 services.

Who Should Attend
Web developers who want to create JavaScript-based applications that include ArcGIS services, GIS professionals who want to create JavaScript-based web mapping applications

Goals
After completing this course, you will be able to
• Build an application that includes an ArcGIS.com web map
• Integrate GIS data from a variety of web services
• Add components that support interactive map navigation and dynamic display of map layers
• Incorporate query tasks to allow users to select map features and access their attributes
• Add functionality that allows users to perform geoprocessing tasks and display the results
• Add functionality to support web-based data collection and editing

Prerequisites: Yes*

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*For up-to-date course descriptions, prerequisites, pricing, and schedules, visit esri.com/coursecatalog.
Esri Technical Certification: Skills Review for ArcGIS Desktop Associate
Two days (16 hours) — $1,010

Overview
This course helps prepare you for the ArcGIS Desktop Associate certification exam. You will review and apply your ArcGIS skills in the areas of GIS data management, editing, visualization, and analysis. This course is designed as an exam-preparation resource. You are not required to take this course to earn the certification, and completing this course does not guarantee you will pass the exam.

Who Should Attend
Individuals planning to take the ArcGIS Desktop Associate exam

Goals
After completing this course, you will have reinforced skills required to perform the tasks listed below:

- Create a file geodatabase, add data to it, and define components used to ensure data integrity
- Assess spatial properties to determine whether a dataset is appropriate for a given task
- Choose appropriate source data, layer properties, and layout elements for a given map purpose
- Design a map that will be shared on the web
- Create and update features with the required accuracy
- Edit data in a versioned environment and resolve editing conflicts

Prerequisites: Yes*

Esri Technical Certification: Skills Review for ArcGIS Desktop Professional
Two days (16 hours) — $1,010

Overview
This course helps prepare you for the ArcGIS Desktop Professional certification exam. You will review and apply your ArcGIS skills in the areas of data management, data visualization, GIS analysis, modeling and Python scripting, and map production and sharing. Proficiency with ArcGIS Network Analyst and ArcGIS Spatial Analyst is assumed.

This course is designed as an exam-preparation resource. You are not required to take this course to earn the certification, and completing this course does not guarantee you will pass the exam.

Who Should Attend
Individuals planning to take the ArcGIS Desktop Professional certification exam

Goals
After completing this course, you will have reinforced skills required to perform the tasks below:

- Assess data accuracy and quality needs for a given project
- Troubleshoot coordinate system and data alignment errors
- Design a file geodatabase schema for a given project
- Choose appropriate data, tools, and settings for a given analysis
- Create geoprocessing models to automate GIS tasks
- Apply symbology techniques to improve map readability
- Share GIS data, maps, and workflows with ArcGIS users and others

Prerequisites: Yes*

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Esri live training seminars offer GIS training by a technical expert streamed directly to your desktop. These one-hour seminars are live, interactive, and free. You can even request that we e-mail you reminders for upcoming seminars.

All are recorded and available shortly after the live event, in case you miss one. See the schedule of upcoming seminars at esri.com/lts.
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-recognized benchmark will provide the following benefits:

- Improve success with GIS by creating a more qualified workforce
- Help organizations maximize their investment in Esri technology by employing a work force certified in using best practices
- Assist hiring organizations in assessing candidate skills and abilities
- Aid in creating departmental and organizational 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.

Preparing for Your Exam
The skills and knowledge you’ve acquired on the job are the best preparation for your certification exam. You should also review the Candidate Qualifications and Skills Measured sections on the Esri Technical Certification website. From that, you can determine if your skills align with the listed skills and qualifications.

You can also review Training Resources and identify classes that may help you prepare for the exam. In addition, you can visit the ArcGIS Resource Center at resources.arcgis.com or view product web pages, demos, and PowerPoint presentations at esri.com. Esri has also introduced two new Skills Review courses to help you prepare for the desktop certification exams:

- Esri Technical Certification: Skills Review for ArcGIS Desktop Associate (see page 20)
- Esri Technical Certification: Skills Review for ArcGIS Desktop Professional (see page 20)

For detailed information about the program and each certification, visit esri.com/certification.
To register for an exam, visit www.pearsonvue.com/esri.
Instructor-Led Training

1. Select Your Course
Go to esri.com/coursecatalog to view schedules for instructor-led courses taught in the traditional classroom and online. For more information on course availability or for advice, please contact an Esri training consultant at GIStraining@esri.com or 1-800-447-9778, extension 1-5757.

2. Register
A registration application is required for each student. We recommend that you register at least one month prior to the class, since applications are processed on a first come, first served basis.

- Esri Training Website—Once you’ve selected your course, enter the number of seats you’ll need, or students who will attend, and click Register. You will then be asked to complete an online registration form and submit payment information through our secure online system.
- Phone—Contact an Esri training consultant at 1-800-447-9778, extension 1-4518, or by e-mail at GIStraining@esri.com.
- By Fax or Mail—Download and complete a registration application, which you can fax or mail to Esri. Directions are on the form.

Online registrations will be acknowledged within 2 business days. Phone, mail, and fax registration applications will be acknowledged via e-mail. Registrations will not be confirmed until payment is received. Classes are confirmed a minimum of 10 business days prior to the scheduled start date. Please keep this in mind when purchasing nonrefundable airline tickets.

3. Payment
To complete your registration, proof of payment is required. Payment can be made by check (payable to Esri), credit card, preexisting contract, federal government training request, or purchase order. Cash is not accepted. Purchase orders for less than $800 will be accepted only from United States federal, state, and local government agencies; United States educational institutions; and Fortune 500 companies. Mail payment and a copy of your registration form to Esri, File #54630, Los Angeles, CA 90074-4630.

Transfers and Substitutions
A student may transfer to another class up to two times without charge, after which an administrative fee will be assessed for each transfer. Student substitutions (filling a student’s place with another person from the same organization) are allowed under certain conditions. Please refer to Training Terms and Conditions found at esri.com/legal.

Schedule Changes and Cancellations
It is sometimes necessary to change the dates on which a class is offered or to cancel a class. In this case, students will be notified by phone and e-mail as soon as possible and not less than 10 days prior to the scheduled start of the class.

Travel, Lodging, and Meals
Esri is not responsible for student travel arrangements and assumes no responsibility for losses from nonrefundable travel arrangements, including, but not limited to, airfare, lodging, transportation to and from the training site, due to schedule changes. Training location maps, including local hotels and airports, are provided to registrants. Meals are not provided by Esri. Students can access a training location map with a list of area hotels at esri.com/trainingmaps.

Course Materials
All course materials are provided at the training site. For online courses, Esri hosts software that is used in the course, and course materials and data are downloaded as part of the class.

Get registration information for self-paced Virtual Campus web courses at esri.com/howtoregister_vc.
Esri’s Certified Training Program and Authorized Training Program

Instructor-led training is also available through the Certified Training Program (CTP) and the Authorized Training Program (ATP).

CTP trainers hold both an Esri Technical Certification and a CompTIA CTT+ certification and offer limited courses in ArcGIS 10.0 and 10.1. Visit esri.com/ctp to find CTP trainers near you.

ATP instructors must meet authorization requirements for specific courses for ArcGIS 9.3 and previous versions.

Visit esri.com/atp to find ATP instructors near you.

International Training

Esri training is offered worldwide through our distributor network. Outside the United States, contact your local Esri distributor for course offerings and class schedules.

Find the Esri distributor near you at esri.com/distributors.
GIS Certification Institute

Esri instructor-led and self-study courses qualify for educational achievement points awarded by the GIS Certification Institute (GISCI). After completing an Esri training course, you may submit your course completion certificate to GISCI for verification.

For more information about GISCI, visit [www.gisci.org](http://www.gisci.org).
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Esri Training

Is 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 organization. An Esri training consultant is available to help you create a plan that reflects your organization’s goals and needs.

To talk with an Esri training consultant, call 1-800-447-9778, extension 1-5757, or send an e-mail to GIStraining@esri.com.