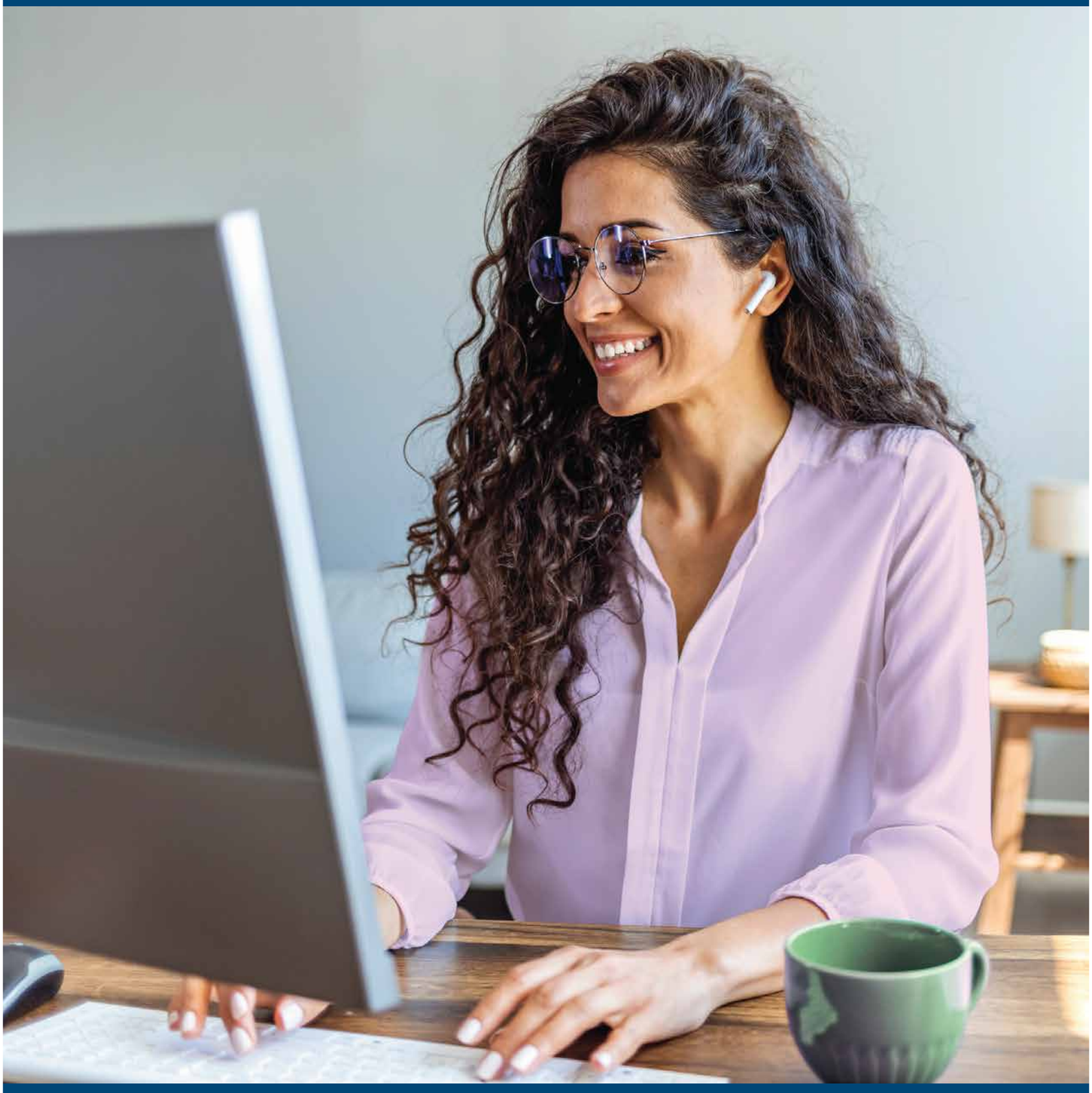
Esri India Training Program

Building Skilled GIS Workforce



esri India

THE SCIENCE OF WHERE™

ArcGIS is a complete platform that individuals and organizations use to find, explore, create, and share maps; apply geospatial data, tools, and models to solve problems; collaborate in groups and communities, and deploy geospatial resources whenever and wherever they are needed. The latest release of ArcGIS transforms how information will be accessed and managed by Geographic Information System (GIS) professionals like yourself.

GIS professionals can now benefit from complete web GIS that integrates desktops & servers as well as mobile & web applications and includes additional tools and infrastructure needed to extend the reach of your existing GIS. Esri India instructor-led training provides the foundation you need to learn how to build a strong platform, extend it across your organization, and fully leverage your GIS investment.

The courses are available to 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.

COURSE OFFERINGS

- ArcGIS Foundation Courses
- ArcGIS Advanced Courses
- Utility Network Management
- Courses for Developers
- Image Analysis Courses
- Wildlife and Forestry
- Water Resources
- Courses for GIS Professionals (Sharing and Collaboration)
- Courses for IT Administrators (Geodatabase Management)
- Courses on Industry Workflows

CONNECT WITH ESRI INDIA TRAINING TEAM

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WHY ESRI INDIA GIS TRAINING?

- Certified and qualified instructors
- Global training standards
- Real-time scenarios
- Optimal batch size
- Esri India course completion certificate
- Exclusive virtual machine for hands-on
- Virtual/On-site delivery options

Dear Valued User,

With more data flowing around the globe than ever before, it is often difficult for organizations to unlock the value contained in different data sources. ArcGIS is a complete platform that provides a geospatial infrastructure, allowing firms to reveal data patterns and attain actionable insights.

Whether you are new to ArcGIS or a seasoned GIS professional who wants to master the latest technology, Esri India instructor-led training courses will help you achieve your goals. The courses are an amalgamation of new-age technologies designed to meet industry-specific workflows that will help you stay abreast and be more productive. I encourage you to check the learning plans and register for a course today.

Warm regards,

Agendra Kumar
Managing Director, Esri India

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TRAINING FORMAT

Instructor-led Training Format

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

The course format includes the following:

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

Esri Certified Instructors

All Esri India instructors have achieved Esri technical certification and have core instructor skills, including preparation, presentation, communication, facilitation, and evaluation, in both a traditional and online classroom environment.

Customized Training Courses

As per the customer requirement, Esri India designs and delivers customized training programs which include the latest use cases and hands on exercises.

COURSE DESIGN

Esri India Instructor-led format focuses on learner engagement and in-depth delivery of the trainings. The courses are designed with a focus on the current industry standards and use cases to help learners imbibe the knowledge and skills required in workplaces.

The course format includes the following:

- Interactive discussions with learners contributing real-world experiences.
- Demonstrations and hands-on software exercises
- Activities and problem-solving scenarios that encourage peer-to-peer learning.

COURSES OFFERED

ArcGIS Foundation Courses

ArcGIS foundation courses emphasize the best practices that will help professionals attain GIS experience and understand workplace responsibilities to be productive and get the results they need from the ArcGIS platform.

Courses for Developers

Whether you are a professional developer or have just begun your career as a developer, these courses will help you learn the core concepts required to develop GIS based apps at full length. These courses are for scripters and builders of geocentric applications and other apps that feature geospatial content.

Courses for GIS Professionals (Sharing & Collaboration)

A GIS professional may wear many hats. Whether you are a one-person GIS team supporting the mapping requirements of your entire organization or one among dozens of professionals in a large GIS department, your work involves one or more core ArcGIS capabilities. These courses help you to understand sharing and collaboration of GIS data over ArcGIS Server, Portal, ArcGIS Online, Field Apps, Dashboards, and other enterprise capabilities.

Courses for Administrators (Geodatabase Management)

IT, system, and database administrators have unique learning requirements. These courses focus on best practices to manage and secure GIS infrastructure, including data, applications, servers, and users.

Courses on Industry Workflows

These courses are for analysts and professionals using ArcGIS to support specific missions and industry niche applications.

Courses for Image Analysis

These courses are for GIS professionals and remote sensing analysts working with high resolution imagery. The courses include ArcGIS Image Analyst, ENVI and SARscape centric modules as well.

Utility Networks Management

Utility Network training provides GIS engineers, utility data managers, and system administrators with an in-depth understanding of ArcGIS Utility Network architecture, schema configuration, asset modeling, subnetwork management, and advanced network tracing. Participants learn to implement asset packages, configure rules and tiers, optimize editing workflows, and deploy Utility Network within ArcGIS Enterprise environments. This technical curriculum prepares teams to build scalable, accurate, and operationally efficient network models for electric, water, gas, and telecom utilities.

Water Resources

These courses are curated for professionals in the water domain to expand their knowledge on the application of Geographic Information Systems (GIS) in Water Resources. These courses are highly impactful for professionals who want to explore in-depth, hydrologic terrain analysis using digital elevation models (DEMs) and DEM based delineation of channel networks and watersheds.

ARCGIS FOUNDATION COURSES

1. Introduction to GIS Using ArcGIS

Two days (16 hours) -

Overview
Master fundamental GIS concepts and work with GIS maps to visualize real-world features, discover patterns, obtain information, and communicate that information to others. This course is taught using ArcGIS Online or an on-premises portal website.

Who Should Attend?
Individuals with no prior GIS education or workplace experience with GIS.

Learn How To
- Find data and other content to support a GIS mapping project.
- Accurately display features on a GIS map and access related information.
- Perform spatial analysis to answer questions and create new information.
- Share GIS maps and analysis results so they are easily accessible to colleagues, decisionmakers, and the public.

Prerequisite:
Basic computer knowledge.

2. ArcGIS Pro: Essential Workflows

Three days (24 hours) -

Overview
This course focuses on common workflows and best practices to map, manage, analyze, and share geographic data and resources. You will acquire the essential skills you need to be productive with ArcGIS Pro.

Who Should Attend?
Individuals with an introductory-level knowledge of GIS concepts and limited ArcGIS experience.

Learn How To
- Combine data to create informative maps.
- Symbolize features on 2D and 3D maps.
- Organize, create, and edit geographic data to keep it accurate and up-to-date.
- Design an attractive layout for printed maps.
- Analyze GIS data to create new information.
- Share maps, analysis results, and geoprocessing models.

Prerequisite:
Introduction to GIS Using ArcGIS.

3. Creating Stories with ArcGIS

Two day (16 hours) -

Overview
ArcGIS StoryMaps stories have achieved mass appeal as a medium to inform the public, share project results, engage stakeholders, and inspire an audience. This course–for anyone that wants to share information in an interactive, highly engaging manner–teaches the concepts, best practices, and decisions that need to be made when creating and sharing a story using ArcGIS StoryMaps.

Who Should Attend?
GIS professionals, educators, and planners looking to share spatial data and narratives through StoryMaps.

Learn How To
- Choose an appropriate story map app for your purpose and audience.
- Add web maps, images, multimedia, and text to create an engaging story map.
- Apply best practices to share and promote your story maps.

Prerequisite:
Familiarity with ArcGIS Online will be helpful, however, not a mandate.

4. Migrating from ArcMap to ArcGIS Pro

Two days (16 hours) -

Overview
This course introduces essential ArcGIS Pro terminology and prepares you to be productive. You will learn how to efficiently complete a variety of tasks related to mapping, editing; analyzing and sharing data, maps, and other geospatial resources.

Who Should Attend?
Experienced ArcMap users.

Learn How To
- Create an ArcGIS Pro project and import map documents and 3D scenes.
- Create and modify map layouts and symbology.
- Edit feature geometry and attributes.
- Import a geoprocessing model and identify potential migration issues.
- Share geospatial resources to your organization's ArcGIS portal.

Prerequisite:
Working experience on ArcMap.

5. Mapping and Visualizing Data in ArcGIS

Two days (16 hours) -

Overview
Create high-impact maps and information products. Learn cartographic techniques and ArcGIS Pro and ArcGIS Online workflows to create and share a variety of professional-quality information products, including print maps, web maps, 3D scenes, animations, and charts.

Who Should Attend?
Experienced ArcGIS Pro users who want to map and visualize their data in a more authoritative manner.

Learn How To
- Prepare data for a mapping project.
- Apply symbology and labeling techniques to enhance data visualization on maps and charts.
- Design print map layouts that are appropriate for your data, audience, and purpose and web maps for use in web-based information products.
- Create and share 3D scenes and animations that enable dynamic visualization of data and change over time.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge.

6. Preparing Data for GIS Applications

Two days (16 hours) -

Overview
Solve your data challenges. When starting a GIS mapping or analysis project, a common challenge is assembling the data needed to answer the question or produce the desired output. The datasets you need may be available but at different accuracy levels or include the required geographic features but lack a key attribute. Many issues may make data unusable as-is. This course explores data-preparation techniques that are relevant for a variety of GIS applications. Gain essential skills to assess data quality, address inconsistencies, and deliver valid results from your GIS projects.

Who Should Attend?
Experienced ArcGIS Pro users who want to learn and explore data-preparation techniques.

Learn How To
- Identify data requirements for a given project and authoritative sources for data acquisition.
- Assess a dataset's spatial, temporal, and thematic accuracy; logical consistency; and completeness to determine whether it meets a project's data quality standards.
- Apply ArcGIS Pro tools and techniques to address quality issues, correct errors, and create new data that contains the spatial extent, accuracy, and attributes required for a project.
- Create metadata to document a dataset's quality so that others can easily assess its appropriateness for their projects.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge.

7. Creating and Editing Data with ArcGIS Pro

Two days (16 hours) -

Overview
Maintain the accuracy of your authoritative GIS data. This course teaches best practices to create accurate geographic data and maintain it over time. You will get ample hands-on practice with a variety of ArcGIS Pro tools that streamline the editing process and decrease the potential for errors when updating your GIS database.

Who Should Attend?
GIS analysts, specialists, technical leads and managers who aim to learn create and maintain authoritative data.

Learn How To
- Apply a standard editing workflow to manage updates to geographic data.
- Configure ArcGIS Pro application and project settings to support efficient editing.
- Create, modify, and delete 2D and 3D features and attributes.
- Solve common data alignment issues and maintain spatial relationships among features when editing.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or equivalent knowledge.

8. Creating Maps and Visualizations with ArcGIS

Two days (16 hours) -

Overview
Design and share beautiful map products. Learn fundamental cartographic design principles and a standard workflow to produce print and online maps tailored to their purpose, medium, and intended audience. This course teaches ArcGIS Pro techniques to create and share a variety of professional-quality information products including print maps, web maps, 3D scenes, animations, and charts.

Who Should Attend?
GIS analysts, specialists, and managers who aim to learn design cartographic maps and maintain quality of the 2D and 3D data.

Learn How To
- Prepare data for a mapping project.
- Design map elements that are appropriate for your data, audience, map purpose, and delivery medium.
- Apply 2D and 3D cartographic best practices to create and share print maps, web maps, and 3D scenes.
- Create animations to dynamically visualize data and change over time.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge.

9. Spatial Analysis with ArcGIS Pro

Three days (24 hours) -

Overview
Learn a standard workflow and best practices you can apply to any spatial analysis project. You will perform different types of analysis to efficiently create reliable results that support informed decision-making.

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

Learn How To
- Find, evaluate, and prepare data for an analysis project.
- Perform suitability analysis to identify optimal locations based on project criteria.
- Apply spatial statistics tools to examine distribution patterns, clusters, and hot spots.
- Automate an analysis workflow using a geoprocessing model.
- Share analysis results to your ArcGIS Online organizational site or on-premises portal website.

Prerequisite:
ArcGIS Pro: Essential Workflow.

10. Get Started with ArcGIS Data Reviewer for Desktop

One day (8 hours) -

Overview
Maintain defined data quality standards. This course teaches how to streamline data validation to quickly identify features that do not meet your organization's quality requirements. You will gain hands-on experience configuring and running automated data checks to holistically manage and track the status of errors throughout the quality control process.

Who Should Attend?
- GIS technicians, spatial data managers, and project managers who need to oversee or 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.

Learn How To
- Define data quality requirements.
- Perform automated and semi-automated validation.
- Compile and track data quality results.

Prerequisite:
ArcGIS: Essential Workflows.

11. Managing Geospatial Data in ArcGIS

Two days (16 hours) -

Overview
Learn essential geodatabase concepts and develop the skills required to create a geodatabase, add data to it, and efficiently manage your organization's geographic data over time. You will learn how to take advantage of the unique geodatabase features that help ensure your organization's data integrity. This course is taught using ArcGIS Pro.

Who Should Attend?
GIS managers, data managers, data technicians, analysts, and others who manage geographic data.

Learn How To
- Design a geodatabase schema to store your organization's data.
- Load data from a variety of formats into a geodatabase.
- Create subtypes and domains to simplify editing and increase the accuracy of feature attributes.
- Create a geodatabase topology to ensure spatial integrity during data editing.
- Share data to your ArcGIS Online organizational site or on-premises portal website.

Prerequisite:
ArcGIS Pro: Essential Workflows.

12. Building 3D Cities Using Esri City Engine

Three days (24 hours) -

Overview
Esri CityEngine® uses a rule-based approach to help you efficiently produce highly realistic 3D models. This course introduces the CityEngine procedural modeling workflow and best practices to create compelling 3D cities. This can be used to visualize urban landscapes, explore impacts of the proposed development, generate virtual city simulations, and support geodesign projects.

Who Should Attend?
GIS professionals, urban planners, landscape architects, architects, entertainment professionals, and others who want to create 3D city models and urban landscapes.

Learn How To
- Create an Esri CityEngine project to organize and manage data and assets.
- Import 2D GIS data and apply Computer Generated Architecture rules to create detailed 3D shapes.
- Import, modify, and create rules to generate realistic content that brings a 3D city to life.
- Sketch and texture 3D building models.
- Share 3D city scenes to ArcGIS Online.

Prerequisite:
No or minimum knowledge of GIS.

13. Introduction to Indoor Mapping Using ArcGIS Indoors

Two days (16 hours) -

Overview
This course introduces key workflows to successfully deploy ArcGIS Indoors. Learn how to create and maintain a complete system for indoor mapping and data management that lets your organization share smart building maps. Get guided practice with tools and workflows used to integrate CAD, BIM, LAS, and GIS data and create floor-aware data and layers to support indoor navigation. You'll also explore data considerations and data-preparation techniques in ArcGIS Pro.

Who Should Attend?
Facility managers, space planners, campus administrators, and GIS professionals involved in indoor mapping and navigation.

Learn How To
- Import georeferenced CAD and BIM floor plan data into an ArcGIS Indoors geodatabase.
- Build a routable indoor network that supports wayfinding using ArcGIS Indoors apps
- Create floor-aware maps and 3D scenes.
- Deploy ArcGIS Indoors mobile and web apps to enable individuals to easily navigate a building and reserve meeting rooms and workspaces.

Prerequisite:
ArcGIS Pro: Essential Workflows and Sharing content to Enterprise.

14. 3D Visualization and Analytics Fundamentals

One day (8 hours) -

Overview
Maps are powerful tools for analysis and problem solving, but two-dimensional images can only show so much about our three-dimensional world. Discover the modern 3D GIS capability of ArcGIS to reveal additional context and improve your decisions. Explore techniques for creating, maintaining, visualizing, and analyzing 3D content.

Who Should Attend?
Urban planners, environmental analysts, engineers, and GIS professionals needing 3D visualization for planning and analysis.

Learn How To
- Create 3D models that represent real-world locations and proposed designs.
- Visualize reality in their real-world 3D context.
- Analyze 3D data to explore and understand variables that involve three-dimensional space.
- Publish 3D content and apps.

Prerequisite:
Completion of ArcGIS Pro Basics or equivalent knowledge.

15. Finding the best paths: Network Analysis

One day (8 hours) -

Overview
Determine the optimal path.
GIS analysis tools are widely used for path optimization–that is, to do things like find the most efficient route between stops on a transportation network, the safest path between point A and point B, and to identify suitable land routes for roads and pipelines. Resources in this course teach network and spatial analysis techniques to plan optimized routes for a vehicle or fleet, locate the closest facilities, and define service areas.

Who Should Attend?
Transportation planners, logistics managers, emergency responders, and GIS analysts involved in routing and network optimization.

Learn How To
- Find efficient routes over a fixed infrastructure.
- Find the closest facilities.
- Perform location-allocation.
- Generate service areas.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or equivalent knowledge.

16. Introduction to Web Development Using ArcGIS API for JavaScript

Three days (24 hours) -

Overview
This course reviews basic concepts of web development and introduces ArcGIS API for JavaScript. You will explore API classes, widgets, and available functionality as you work with high-performing web applications that incorporate ArcGIS content and services. You will gain experience with the API by querying, visualizing, and analyzing 2D and 3D data.

Who Should Attend?
GIS professionals and others with HTML, CSS, and JavaScript experience who want to develop custom web applications.

Learn How To
- Develop and test web application functionality based on ArcGIS API for JavaScript.
- Programmatically render ArcGIS services to support map visualization needs.
- Include capabilities for application end users to view 2D maps and 3D scenes, query map layers, and perform spatial analysis and geoprocessing operations.

Prerequisite:
Basic GIS or Development skills.

17. Creating Python Scripts for ArcGIS

Three days (24 hours) -

Overview
Time is valuable. Learn how to create scripts that will streamline your GIS work. This course teaches how to access the Python environment in ArcGIS Pro, script common data management tasks, and automate geoprocessing workflows. You'll learn techniques to share your scripts, so they are easily accessible both inside and outside ArcGIS Pro.

Who Should Attend?
GIS professionals and others who are looking to explore usage of Python in ArcGIS Pro.

Learn How To
- Apply Python syntax rules to create robust scripts in ArcGIS Pro.
- Use automation techniques to repeat geoprocessing tasks in a Python script to create an efficient, repeatable analysis workflow.
- Use Python to access geospatial data, edit attributes, and create and modify features.
- Create custom Python script tools that can be shared with other ArcGIS users.

Prerequisite:
ArcGIS Pro and Basics of Python.

18. Building Web Apps with ArcGIS Experience Builder

Two days (16 hours) -

Overview
Transform your data into compelling web apps. Learn how to build immersive web apps that take advantage of modern web design principles without writing code. This course shows how to interactively create, configure, and publish map centric and datacentric web apps that feature your organization's content. This course is ideal for GIS professionals, web designers, and others who want to create engaging, responsive web applications.

Who Should Attend?
GIS professionals and others who are looking to learn making Web Apps on ArcGIS Online.

Learn How To
- Design the app layout and theme based on the audience and purpose.
- Configure widgets to enable users to interact with your organization's web maps and 2D and 3D data.
- Configure widgets to provide data-driven functionality across multiple pages.
- Test, preview, and publish your apps for use on a variety of devices.

Prerequisite:
Basic familiarity with ArcGIS Online is recommended.

19. Get Started with ArcGIS Arcade

Two days (16 hours) -

Overview
Discover the unique role of the Arcade expression language within ArcGIS and explore concepts that underlie writing and executing Arcade expressions that can be used across the ArcGIS system (ArcGIS Online, ArcGIS Pro, ArcGIS Enterprise, and ArcGIS apps). In course exercises, you will get familiar with Arcade scripting environments and build expressions to customize map labels and pop-ups, create field calculations, enable data validation, and more. Leave class with a strong understanding of Arcade capabilities and community resources.

Who Should Attend?
GIS analysts, developers, and data visualization specialists who want to create custom visualizations, labels, and calculations in ArcGIS.

Learn How To
- Understand Arcade language features, profiles, and portability across the ArcGIS system.
- Apply a standard workflow to plan, write, and execute Arcade expressions.
- Use Arcade expressions within ArcGIS products.
- Identify, troubleshoot, and fix common scripting errors.

Prerequisite:
Familiarity with basic programming concepts will be helpful but is not required. \n Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge is required. \n Completion of ArcGIS Online: Essential Workflows or equivalent knowledge is required.

20. ArcGIS Enterprise: Configuring a Base Deployment

Two days (16 hours) -

Overview
Learn how to install and configure an ArcGIS Enterprise base deployment to enable individuals to securely access, create, and share geospatial resources across your organization. You will learn how to license and install the four software components of a base deployment and ensure system security and performance.

Who Should Attend?
IT administrators; GIS web administrators; and others who install, manage, or support an ArcGIS Enterprise system.

Learn How To
- Install ArcGIS Server, Portal for ArcGIS, ArcGIS Data Store, and ArcGIS Web Adaptor (IIS).
- Configure a portal website to manage users, groups, and content-sharing privileges.
- Apply Secure Sockets Layer (SSL) certificates to deploy encrypted security.
- Configure a suitable authentication method for your organization's needs.

Prerequisite:
Sharing Content on the Web.

21. ArcGIS Enterprise: Administration Workflows

Three days (24 hours) -

Overview
Master techniques to configure and maintain an ArcGIS Enterprise solution that meets your organization's business requirements. You will learn about ArcGIS Enterprise architecture, server licensing roles and extensions, and the capabilities that support common GIS patterns of use. Best practices to manage servers, data, and services while ensuring system performance over time are covered.

Who Should Attend?
GIS professionals, Developers, Administrators who need to share their authoritative content, to incorporate ArcGIS services or understand the process.

Learn How To
- Use scripts to automate common administrative functions.
- Configure distributed collaboration between multiple ArcGIS Enterprise portals.
- Apply best practices to configure GIS resources, services, and caches.
- Use scripts to automate common administrative functions.
- Maintain system performance using workload separation and other best practices.

Prerequisite:
Configuring a Base Deployment

22. Sharing Content to ArcGIS Enterprise

Two days (16 hours) -

Overview
Web maps, apps, and other authoritative GIS resources are the lifeblood of an ArcGIS Enterprise portal website. This course covers key workflows and best practices to add resources to your portal and make them easily accessible. Get the information you need to efficiently share a variety of resources that support operational workflows, collaboration within and across business lines, and the ability of portal users to infuse their projects with location-based insight.

Who Should Attend?
- GIS professionals who need to share their authoritative content.
- Developers who want to incorporate ArcGIS services into custom apps
- Administrators looking to gain understanding publishing ArcGIS services.

Learn How To
- Understand the role that ArcGIS Enterprise components play in managing and sharing GIS resources.
- Manage access to shared resources and create descriptive information so that portal users can easily discover resources and assess their usefulness for their projects.
- Publish maps, feature layers, vector tile layers, and other GIS resources to an ArcGIS Enterprise portal.
- Apply expert techniques to optimize maps and layers before publishing to ensure high performance and excellent user experience.

Prerequisite:
ArcGIS Pro: Essential Workflows

23. ArcGIS Online: Essential Workflows

One day (8 hours) -

Overview
Get started with maps and apps. This course introduces web maps, apps, and other authoritative content that may be available through your ArcGIS Online organizational site. You will learn how to discover, use, create, and share content that infuses projects with geographic context, additional business intelligence, and visual impact. Course concepts also apply to ArcGIS Enterprise portals.

Who Should Attend?
- GIS professionals who need to share their authoritative content.
- Administrators looking to gain understanding publishing ArcGIS services.

Learn How To
- Find content on an ArcGIS Online organizational site that meets your project needs.
- Create and configure web maps and web apps.
- Use web maps in Microsoft Office applications.
- Share maps and other content on your ArcGIS Online organizational site.

Prerequisite:
No experience with GIS or ArcGIS Online is required.

24. Working with ArcGIS Dashboards

Two days (16 hours) -

Overview
Deliver data-driven insight, at a glance. Learn how to present data simply and effectively to monitor key metrics and activities in progress and provide decision-makers with easy access to the data that matters most to them. This course covers the essential concepts and workflows you need to understand to create an ArcGIS Dashboards dashboard from scratch, configure it to meet your data users' needs, and share it with stakeholders.

Who Should Attend?
- GIS professionals who need to share their authoritative content.
- Administrators looking to gain understanding publishing ArcGIS services.

Learn How To
- Efficiently create a dashboard and design its layout.
- Display dynamic data, attribute data, maps, and charts on a dashboard.
- Configure dashboard interactivity.
- Use Arcade expressions to create data sources for visualizations and format dashboard elements.

Prerequisite:
Familiarity with ArcGIS Online will be helpful but is not required.

25. Field Data Collection and Management Using ArcGIS

Two days (16 hours) -

Overview
Efficiently collect accurate data that supports real-time decision making. Learn how ArcGIS supports a complete field data management workflow—from the office to the field, in the field, and back to the office. You will learn best practices to configure and deploy ArcGIS field-productivity apps to meet your data-collection needs. You will have the opportunity to use your own iOS or Android device to complete some course exercises.

Who Should Attend?
GIS professionals and Field Survey Staff who want to learn to collect, manage, and publish field GIS and non-GIS data.

Learn How To
- Create and configure web maps for map-based data collection and surveys for form-based data collection.
- Quickly capture real-time field observations.
- Monitor fieldwork in progress using a dashboard.

Prerequisite:
Completion of ArcGIS Online: Essential Workflows or equivalent knowledge is recommended.

26. Deploying and Maintaining a Multiuser Geodatabase

Two days (16 hours) -

Overview
Support your organization's data management workflows. This course prepares you to successfully create a multiuser geodatabase that stores and manages your organization's authoritative geographic data. Learn about the multiuser geodatabase architecture and apply techniques to efficiently load data, assign user privileges, and maintain performance over time.

Who Should Attend?
Spatial database administrators and GIS data managers.

Learn How To
- Create a multiuser geodatabase.
- Load and update data in a multiuser geodatabase.
- Configure user roles and permissions to provide secure data access.
- Apply best practices to optimize geodatabase performance.

Prerequisite:
ArcGIS Pro: Essential Workflows.

27. Implementing Versioned Workflows in a Multiuser Geodatabase

Three days (24 hours) -

Overview
Efficiently maintain your enterprise data. Learn a sound traditional versioning workflow that minimizes disruption to editors, ensures the integrity of your organization's GIS data, and integrates well with existing business workflows. This course (taught using ArcGIS Pro) explores a variety of versioned editing workflows for the enterprise geodatabase, including traditional versioned editing, non-versioned editing, and geodatabase replication. Discover best practices to achieve optimal performance while applying editing workflows that support your business needs.

Who Should Attend?
GIS database managers and administrators.

Learn How To
- Design a traditional versioning workflow that meets your organization's needs.
- Manage multiple geodatabase versions.
- Implement one-way, two-way, and checkout replicas.
- Monitor and maintain geodatabase performance in a traditional versioned editing environment.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro and Deploying and Maintaining a Multiuser Geodatabase or equivalent knowledge.

29. Configuring Branch Versioning in ArcGIS

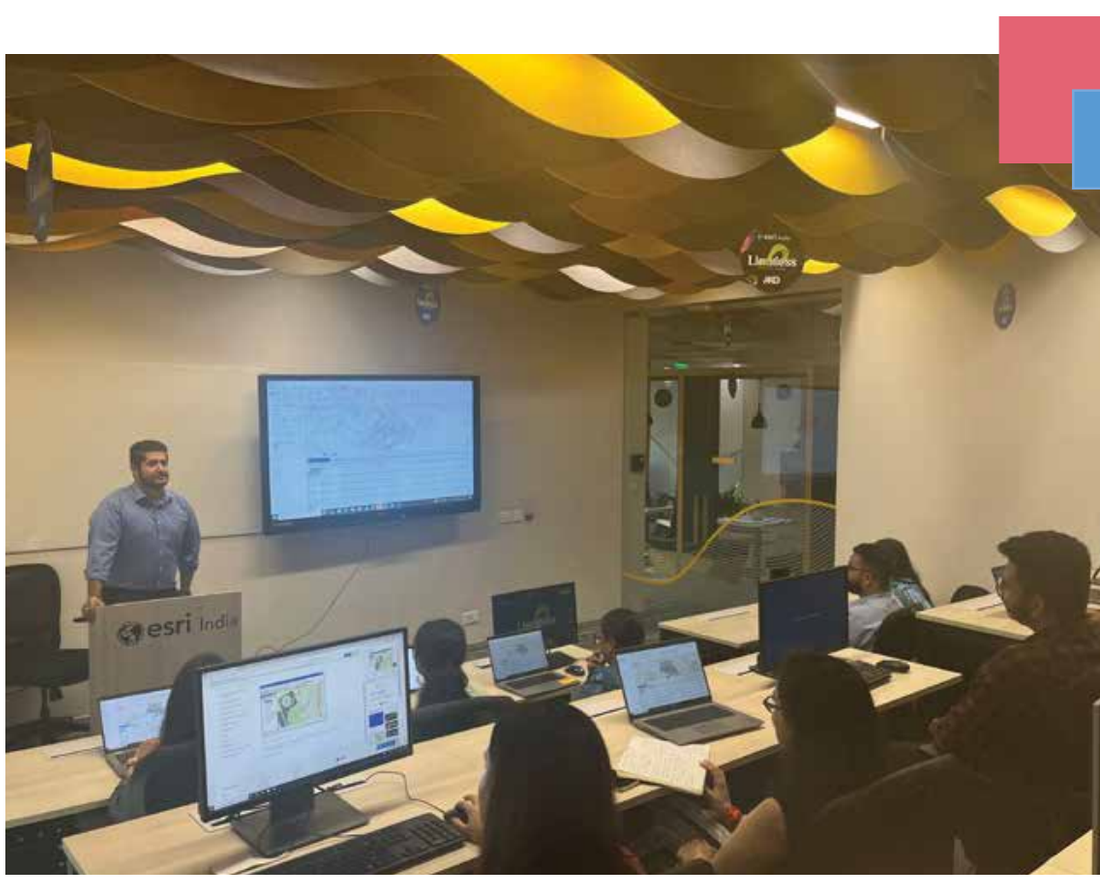
One day (8 hours) -

Overview
Support enterprise multiuser editing workflows. This course prepares GIS professionals and database administrators to implement branch versioning in an enterprise geodatabase using ArcGIS Pro. Learn best practices to establish branch versioning workflows that support multiuser editing and the accuracy of your authoritative geospatial data. This course is especially relevant for organizations that have deployed ArcGIS Utility Network or ArcGIS Pro Parcel Fabric.

Who Should Attend?
GIS database managers and administrators who need to incorporate multiuser editing workflows into their ArcGIS Enterprise and versioned editing workflows.

Learn How To
- Create and edit a branch version of a feature class stored in an enterprise geodatabase.
- Configure user roles, group permissions, and privileges for branch-versioned editing.
- Share branch-versioned data as a service to support online and offline multiuser editing workflows.
- Implement conflict detection, track feature edits, and synchronize offline edits to branch-versioned data.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro and ArcGIS Enterprise: Configuring a Base Deployment or equivalent knowledge.



30. Introduction to Geospatial Concepts for Intelligence using ArcGIS Pro

Two days (16 hours) -

Overview
Apply geospatial capabilities to support mission success. Learn foundational geospatial concepts that support the intelligence cycle. In the context of real-world scenarios, you will get hands-on practice applying ArcGIS Pro tools and workflows to prepare, visualize, analyze, and disseminate data that supports intelligence operations.

Who Should Attend?
Professionals in the military, intelligence, and national security communities who have minimal or no geospatial experience. The attendees must specialize in intelligence planning, geospatial intelligence, all-source intelligence, imagery exploitation, or intelligence production.

Learn How To
- Identify and prepare geospatial data and other content for visualization and analysis.
- Organize, create, and manage geospatial data stored in a geodatabase.
- Display geospatial data and imagery on a map.
- Create and disseminate information products to support mission planning and intelligence operations.

Prerequisite:
Experience working on a desktop personal computer and with Microsoft Office applications is required.
Familiarity with ArcGIS Pro.

31. Using ArcGIS for Geospatial Intelligence Analysis

Two days (16 hours) -

Overview
Mission support that uses the power of location. This course teaches geospatial concepts and recommended workflows that support the production of timely, accurate, and actionable intelligence. Using relevant scenarios and operational problems, you will learn how to manage, analyze, and visualize geospatial data, then share your work by producing mission-specific products aligned with industry best practices.

Who Should Attend?
Professionals in the military, intelligence, and national security communities who have minimal or no geospatial experience. The attendees must specialize in intelligence planning, geospatial intelligence, all-source intelligence, imagery exploitation, or intelligence production.

Learn How To
- Evaluate and prepare geospatial data to support intelligence planning and analysis activities.
- Analyze potential threats to identify patterns, hot spots, and clusters.
- Apply ArcGIS Pro geoprocessing tools and ArcGIS LocateXT to support production workflows, analysis, visualization, and information dissemination.
- Create and share operational map products that include military symbology.

Prerequisite:
Completion of Introduction to Geospatial Concepts for Intelligence or equivalent knowledge.

32. Image Analysis for Defense and Intelligence

Two days (16 hours) -

Overview
Translate pixels into actionable insight. This course prepares geospatial intelligence and imagery professionals to work with a variety of imagery data in the context of realistic scenarios. Gain hands-on practice with ArcGIS Pro imagery tools and learn techniques and recommended workflows to create useful information that supports mission planning and tactical operations.

Who Should Attend?
Professionals in the military, intelligence, and national security communities who have minimal or no geospatial experience. The attendees must specialize in intelligence planning, geospatial intelligence, all-source intelligence, imagery exploitation, or intelligence production.

Learn How To
- Choose appropriate imagery datasets for a given scenario and area of interest.
- Understand factors that can impact the accuracy of imagery interpretation and apply mensuration techniques to accurately measure features on oblique and vertical imagery.
- Apply raster functions to enhance imagery display and perform change detection analysis.
- Perform image classification and analyze motion imagery to categorize land-cover features and identify areas and objects of interest.

Prerequisite:
Completion of Introduction to Geospatial Concepts for Intelligence or equivalent knowledge. Attendees should be familiar with fundamental remote sensing concepts.

33. ArcGIS Enterprise: Analysis Workflows for Intelligence

Two days (16 hours) -

Overview
Create and share intelligence products in the cloud. This course—for analysts in the defense, intelligence, and public safety communities—introduces mapping and analysis capabilities available through their organization's ArcGIS Enterprise portal. Learn workflows to leverage ArcGIS Enterprise capabilities and apps to make web maps, analyze data, and create useful information products to share with decision-makers.

Who Should Attend?
Professionals in the military, intelligence, and national security communities who have minimal or no geospatial experience. The attendees must specialize in intelligence planning, geospatial intelligence, all-source intelligence, imagery exploitation, or intelligence production.

Learn How To
- Understand the types of content that can be shared to an ArcGIS Enterprise portal and how to find content that supports your needs.
- Create a web map, add layers to it, and analyze data.
- Configure a web app to share analysis results.
- Create dashboards, immersive digital stories, and rich web experiences to support real-time monitoring of operations and decision-making.

Prerequisite:
Completion of Introduction to Geospatial Concepts for Intelligence or equivalent knowledge is required.
Completion of Using ArcGIS for Geospatial Intelligence Analysis.

34. Working with Parcel Data in ArcGIS Pro

Three days (24 hours) -

Overview
Modernize land records data management. This course teaches how to maintain accurate, up-to-date, and authoritative parcel data using ArcGIS Parcel Fabric and ArcGIS Pro. You will learn a standard workflow to create a parcel fabric in a file geodatabase, add parcel data to the fabric, and edit parcels to reflect real-world changes. This course assumes familiarity with land-records terminology.

Who Should Attend?
Professionals in urban planning, land records management, city planning, and town planning communities who have minimal geospatial experience.

Learn How To
- Configure the ArcGIS Parcel Fabric environment.
- Edit parcel geometry, measurements, attributes, and labels in a branch versioning environment.
- Track parcel history and lineage to represent land record changes over time.
- Publish a parcel fabric as a feature service to ArcGIS Enterprise so that up-to-date parcel data is available to everyone in your organization who needs it.

Prerequisite:
Completion of Creating and Editing Data with ArcGIS Pro or equivalent knowledge.

35. Graph Analytics Using ArcGIS Knowledge

Two days (16 hours) -

Overview
This course introduces foundational concepts, terminology, and workflows to perform graph analysis using ArcGIS Knowledge. Learn how to visualize and analyze spatial, nonspatial, structured, and unstructured data together in a knowledge graph, and build skills to combine graph analysis with spatial analysis to uncover relationships and hidden patterns in large amounts of data.

Who Should Attend?
Data scientists, GIS specialists, and analysts working on relationship analysis, link analysis, or network/graph-based datasets.

Learn How To
- Model data for use in ArcGIS Knowledge.
- Use ArcGIS Knowledge to load data into a knowledge graph and query the knowledge graph.
- Manage and analyze data using a knowledge graph in ArcGIS Pro.
- Visualize and share graph analysis results.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge. Familiarity with basic statistical and mathematical concepts is assumed. \n Experience with graph theory and network analysis is not required but will be helpful.

36. ArcGIS Urban: Essential Workflows

Two days (16 hours) -

Overview
Transform your community into a showcase for smart city planning.
ArcGIS Urban provides a comprehensive set of tools to city, county, and regional planners along with the private sector to orchestrate the urban development lifecycle. This plan will help you learn the essential skills to apply ArcGIS Urban in your own community.

Who Should Attend?
Urban planners, city administrators, policy makers, and GIS professionals working on zoning, land use, and development planning.

Learn How To
- Get an overview of what ArcGIS Urban has to offer.
- Create an ArcGIS Urban model.
- Configure types data and layers.

Prerequisite:
Completion of ArcGIS Urban Basics or equivalent knowledge.

37. Introduction to ENVI® Analytics

Three days (24 hours) -

Overview
This course teaches about the core functionality of ENVI. An introduction to hyperspectral data analysis that can be used as a stepping-stone for learning about ENVI's advanced hyperspectral analysis capabilities will be given.

Who Should Attend?
Individuals with basic level of knowledge of Imagery.

Learn How To
- What is ENVI?
- Start with image processing.
- Sensors and data formats
- Work with layers and multiple views in ENVI
- Work with different tools and functionalities
- Work with vector and raster data
- Image Analysis

Prerequisite:
Basic imagery knowledge.

38. Introduction to SARscape

Two days (16 hours) -

Overview
This course teaches how to use the SARscape module of ENVI to generate meaningful SAR products from different kinds of SAR data.

Who Should Attend?
Individuals with basic level of knowledge of Imagery.

Learn How To
- What is Sarscape
- Work with different tools and functionalities
- Radar Concepts
- Work with different Toolsets
- Work with analysis techniques

Prerequisite:
Basic imagery knowledge.

39. Imagery Analysis in ArcGIS Pro

Two days (16 hours) -

Overview
This course is for GIS professionals and imagery analysts in the private sector and civilian government agencies who need to extract meaningful information from satellite imagery, unmanned aerial vehicle (UAV)-collected data, and other imagery formats. Workflows and considerations to display, process, and create derived raster products using ArcGIS Pro and ArcGIS Image Analyst are covered. You'll explore common imagery applications, including disaster recovery, damage assessment, and forest canopy assessment.

Who Should Attend?
Individuals with basic level of knowledge of Imagery.

Learn How To
- Apply dynamic raster functions to enhance imagery display and perform change detection.
- Perform image classification and assess the accuracy of results.
- Post-process classified thematic rasters to support analysis needs.
- Work with derived information products including digital elevation models.

Prerequisite:
ArcGIS Pro: Essential Workflows.

40. Working with Lidar Data in ArcGIS

One day (8 hours) -

Overview
Master the basics. This course introduces light detection and ranging (lidar) data concepts, collection methods, quality-control considerations, and common applications. Techniques to manage, edit, visualize, and share lidar-derived 2D and 3D information products using ArcGIS Pro are covered.

Who Should Attend?
Individuals with basic level of knowledge of Imagery and ArcGIS Pro who want to learn derive critical information from lidar data.

Learn How To
- Validate the quality and accuracy of lidar data.
- Edit lidar data to correct errors.
- Organize, process, visualize, and share lidar data using ArcGIS LAS datasets, mosaic datasets, and point cloud scene layers.
- Derive useful information products from lidar data, including raster surfaces, building footprints, and vegetation estimates.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge.

41. Working with Utility Networks in ArcGIS

Two days (16 hours) -

Overview
ArcGIS Utility Network provides robust tools to model, visualize, edit, and analyze complex utility networks. This course—for GIS professionals who edit and analyze electric, gas, or water networks—introduces the utility network model in the enterprise geodatabase. Learn about capabilities that organizations can leverage to better manage network assets, minimize network disruptions, and quickly respond to outages. Attendees can choose to complete course exercises using water, gas, or electric utility data.

Who Should Attend?
GIS analysts, utility planners, engineers, and technicians working with electric, gas, water, or telecommunications networks.

Learn How To
- Explore a utility network that uses an industry-specific configuration from ArcGIS Solutions.
- Apply a standard workflow to create and edit network features and components while maintaining data integrity.
- Perform network tracing to identify the source of a disruption and impacted customers.
- Create and share a diagram to dynamically visualize the network.

Prerequisite:
Completion of ArcGIS Pro: Essential Workflows or Migrating from ArcMap to ArcGIS Pro or equivalent knowledge.

42. Configuring Utility Networks in ArcGIS

Two days (16 hours) -

Overview
This course prepares GIS administrators, technical leads, and others to deploy ArcGIS Utility Network to realistically model and manage their organization's assets and infrastructure. Learn how to define the network schema and properties and load data into a utility network. Attendees can complete course exercises using electric, gas, or water utility scenarios.

Who Should Attend?
GIS administrators, data modelers, and technical leads responsible for designing and managing utility network configurations.

Learn How To
- Choose a method to migrate existing features into a utility network.
- Configure customizations to enhance network diagrams and tracing and editing workflows.
- Manage utility network schema changes and release updates over time.
- Build a utility network using geoprocessing tools.

Prerequisite:
Completion of Working with Utility Networks in ArcGIS or equivalent knowledge.

43. ArcGIS Analysis Workflows for Public Safety

Two days (16 hours) -

Overview
Turn data into actionable intelligence.
Explore realistic scenarios as you learn a standard analysis workflow that will provide deeper insight into how location impacts public safety incidents, trends, and operations. Working primarily with ArcGIS Pro, you will explore tools and techniques to visualize and quantify public safety data. You'll also learn methods to automate analysis workflows so they can be easily repeated and shared with colleagues. This course is ideal for crime analysts and other public safety professionals in law enforcement, homeland security, emergency management, and related fields.

Who Should Attend?
Public safety analysts, emergency planners, law enforcement GIS teams, and disaster management professionals.

Learn How To
- Evaluate and prepare data from a variety of sources to support an analysis project.
- Work with spatial statistics tools to identify patterns, hot spots, and clusters.
- Apply analytical techniques to predict behavior and impact of public safety phenomena.
- Automate analysis workflows using tasks and models.

Prerequisite:
Completion of Using ArcGIS for Public Safety Workflows or equivalent knowledge. Those new to ArcGIS Pro will benefit from taking the free web course, Getting Started with ArcGIS Pro.

44. Using ArcGIS for Public Safety Workflows

Two days (16 hours) -

Overview
Improve response, increase safety.
This course introduces ArcGIS Pro software and a geographic approach that complements and enhances typical public safety workflows. You will work with tools to map and visualize public safety data, identify patterns, create actionable information, and produce dynamic maps and 3D scenes to effectively disseminate that information. Course exercises use realistic public safety scenarios.

Who Should Attend?
First responders, incident commanders, emergency operation center staff, and GIS professionals supporting public safety operations.

Learn How To
- Display data stored in tables and spreadsheets as features on a map.
- Visualize trends and patterns in your data.
- Apply spatial analysis techniques to derive new information from your data.
- Edit GIS data to ensure responders, decision makers, and stakeholders have access to up-to-date data.

Prerequisite:
Completion of Introduction to GIS Using ArcGIS or equivalent knowledge is recommended. Experience with Windows-based software for basic file management and browsing is required.

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ABOUT ESRI INDIA

Established in 1996, Esri India Technologies Pvt. Ltd. (Esri India), the market leader in geographic information system (GIS) software, location intelligence, and mapping solutions in India, helps customers unlock the maximum potential of their data to improve operational and business decisions. It has delivered pioneering enterprise GIS technology, powered by ArcGIS, to more than 6,500 organizations in government, private sector, academia, and non-profit sectors. The company has also introduced 'Indo ArcGIS', a unique GIS solution & data offering suited for government organizations. Esri India collaborates with a rich ecosystem of partner organizations to deliver GIS and location intelligence based solutions. Headquartered in Noida (Delhi NCR), the company has 1 million users in the country and has got Great Place to Work Certified® in 2021, 2022, and 2023.

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