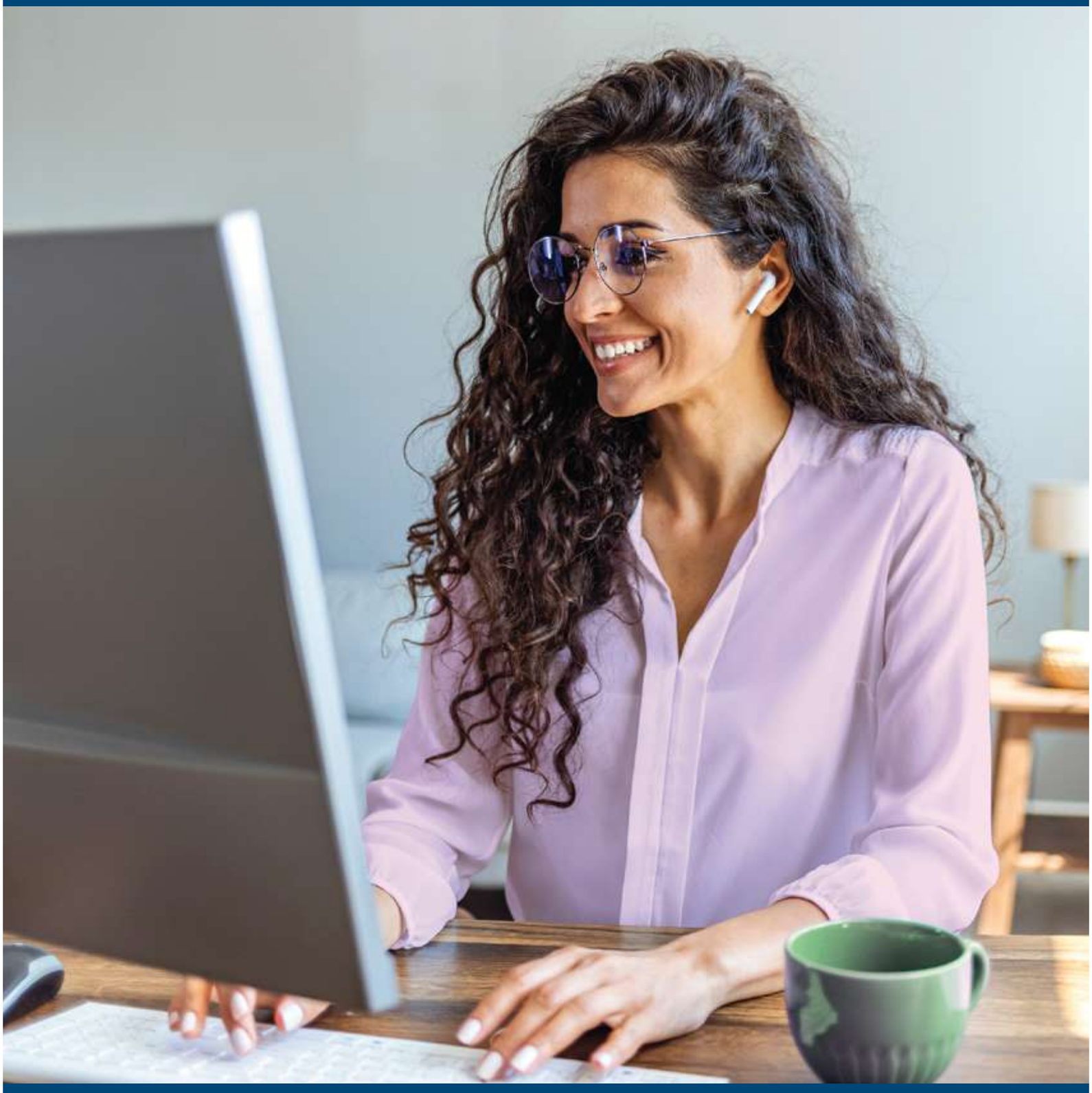
Esri India Training Program

Building Skilled GIS Workforce



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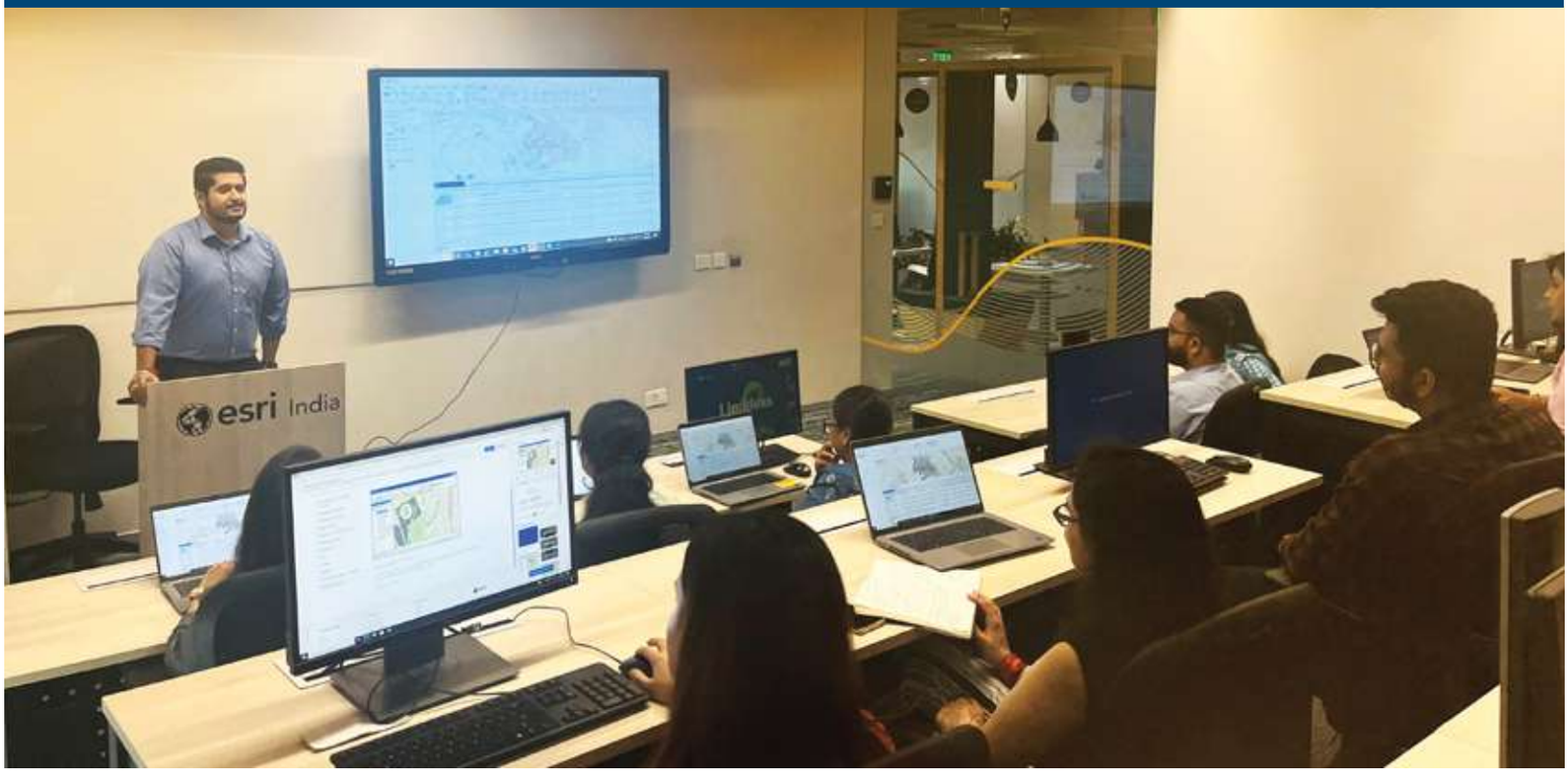

ArcGIS is a complete platform that individuals and organizations use to find, explore, create, and share maps; apply geospatial data, tools, and models to solve problems; collaborate in groups and communities, and deploy geospatial resources whenever and wherever they are needed. The latest release of 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 Advance Courses
- Courses for Developers
- ArcGIS Specialized Courses
- 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

Email: info@esri.in

Phone: 1800-102-1918

Web: go.esri.in/training

WHY ESRI INDIA GIS TRAINING?

- Certified and highly qualified instructors
- Esri India's training standards
- Real-time scenarios
- Optimal batch size
- Esri India Certificate

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.

COURSE 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)

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.

Wildlife and Forestry

These courses are for analysts and professionals focused on the conservation and preservation of wildlife and forest areas. Wildlife and Forestry courses are for GIS professionals who want to explore the usage of ArcGIS Pro, Image Analyst, ENVI, SarScape etc. Courses are designed to meet the requirements of users (editors, viewers), data managers and GIS administrators.

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. The courses cover digital mapping of water resources datasets using content from various available sources, and other climate and hydrography datasets. 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

Two days (16 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 Story Maps with ArcGIS

One day (8 hours) -

Overview
Thanks to their engaging user experience, story maps have achieved mass appeal as a vehicle to inform the public, engage stakeholders, and inspire an audience. This course teaches the concepts, best practices, and decisions that need to be made when creating and sharing a story map.

Who Should Attend?
Anyone who wants to tell stories with maps.

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

Three days (24 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. Get Started with Insights for ArcGIS

One day (8 hours) -

Overview
This course prepares you to work with Insights SM for ArcGIS to dynamically visualize and analyze data from multiple sources on maps, charts, tables, and more. You will learn how to define a workflow to investigate a spatial problem, interactively apply analysis tools, and share your insight across the enterprise.

Who Should Attend?
GIS analysts, specialists, technical leads, managers and non-GIS professionals who are experienced ArcGIS users.

Learn How To
- Connect to data sources and prepare data for analysis.
- Visualize, interact with, and analyze multiple datasets.
- Share analysis results and workflow models.

Prerequisite:
Familiarity with GIS concepts is recommended.

10. Spatial Analysis with ArcGIS Pro

Two days (16 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.

11. Putting ArcGIS to Use Across Your Organization

Three days (24 hours) -

Overview
In this course, you will explore the entire ArcGIS platform - the apps used for mapping and visualization, data collection and management, spatial analytics, and collaboration and sharing. Discover how ArcGIS helps organizations address common business challenges and apply location-based insight to streamline operations and improve decision making.

Who Should Attend?
GIS professionals, managers, and others who need a comprehensive introduction to ArcGIS platform components and capabilities.

Learn How To
- Map and analyze business data using ArcGIS apps and tools.
- Create and share data, web maps, and web apps using an ArcGIS portal.
- Streamline field data collection workflows.
- Configure web apps and dashboards to monitor field operations in real-time.

Prerequisite:
Introduction to GIS Using ArcGIS.

12. Get Started with ArcGIS Data Reviewer for Desktop

One day (08 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.

13. 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.

14. Understanding ArcGIS Workflow Manager

Three days (24 hours) -

Overview
This course introduces you to the ArcGIS Workflow Manager extension, its architecture and available configuration options, 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.

Learn How To
- Describe and set up database and system tables.
- Query, create, assign, locate, and edit jobs.
- Execute workflows and track job status and feature modification history.
- Set up the ArcGIS Workflow Manager security model.
- Model your business processes into ArcGIS Workflow Manager workflows.
- Publish ArcGIS Workflow Manager services and deploy web viewers.

Prerequisite:
Introduction to GIS Using ArcGIS.

15. 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.

16. Configuring Web Apps Using Web App Builder for ArcGIS

One day (8 hours) -

Overview
Learn how to easily create intuitive, focused web apps that are accessible on desktop and mobile devices—without writing any code. This course shows how to take advantage of existing web maps, themes, and widgets to build apps that feature your organization's branding and deliver the functionality your users require.

Who Should Attend?
GIS professionals, managers, and others who are familiar with creating and sharing maps using ArcGIS Online.

Learn How To
- Plan a web app's design based on the audience and required functionality.
- Configure themes and widgets to meet web app requirements.
- Evaluate web app design and functionality on virtual devices.
- Publish a web app.

Prerequisite:
Creating and Sharing GIS Content with ArcGIS Online.

17. Introduction to ArcGIS Indoors

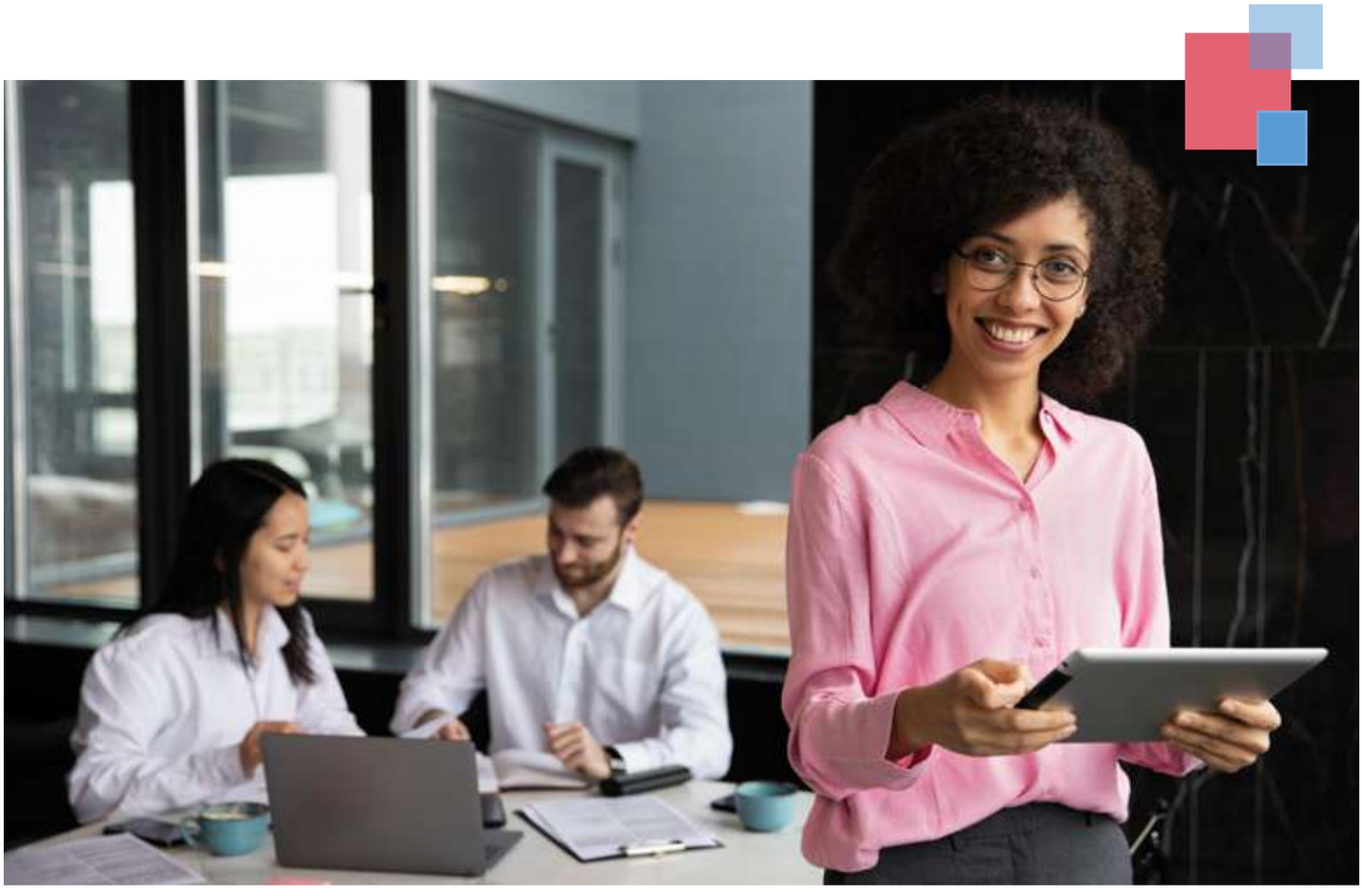
Three days (24 hours) -

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 hands-on practice with tools and workflows used to integrate CAD, BIM, and GIS data; create floor-aware data and layers to support indoor navigation; and manage indoor data over time to streamline workspace planning and facilities management. You'll also explore data considerations and data-preparation techniques in ArcGIS Pro.

Who Should Attend?
GIS professionals working with CAD, BIM and GIS data.

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.



18. Extending ArcGIS Pro with Add-Ins

Three days (24 hours) -

Overview
Learn how to use ArcGIS Pro SDK for the Microsoft .NET Framework to develop custom add-ins that support your organization's unique workflows. This course introduces key ArcGIS Pro SDK for .NET programming patterns, the ArcGIS Pro API, and a wide range of interface customizations and custom functionality that can be deployed using add-ins.

Who Should Attend?
Experienced Microsoft Visual Basic .NET and C# developers.

Learn How To
- Develop, test, and deploy ArcGIS Pro SDK for .NET customizations using the add-in extensibility framework.
- Customize the ArcGIS Pro ribbon and apply key programming patterns.
- Create custom tools to interact with maps and scenes and select or edit geodatabase features.
- Create dock panes and other controls to work with projects, portals, items, views, layers, symbols, and renderers.

Prerequisite:
ArcGIS Pro: Essential Workflows.

19. Introduction to Geoprocessing Scripts Using Python

Three days (24 hours) -

Overview
Python scripts 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. This course is taught using ArcMap.

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

Learn How To
- Choose a Python scripting environment that matches your requirements.
- 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.

Prerequisite:
ArcGIS: Essential Workflows and basic knowledge of Python syntax and experience creating Python scripts.

20. 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.

21. 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.

22. Building Web Apps with ArcGIS Experience Builder

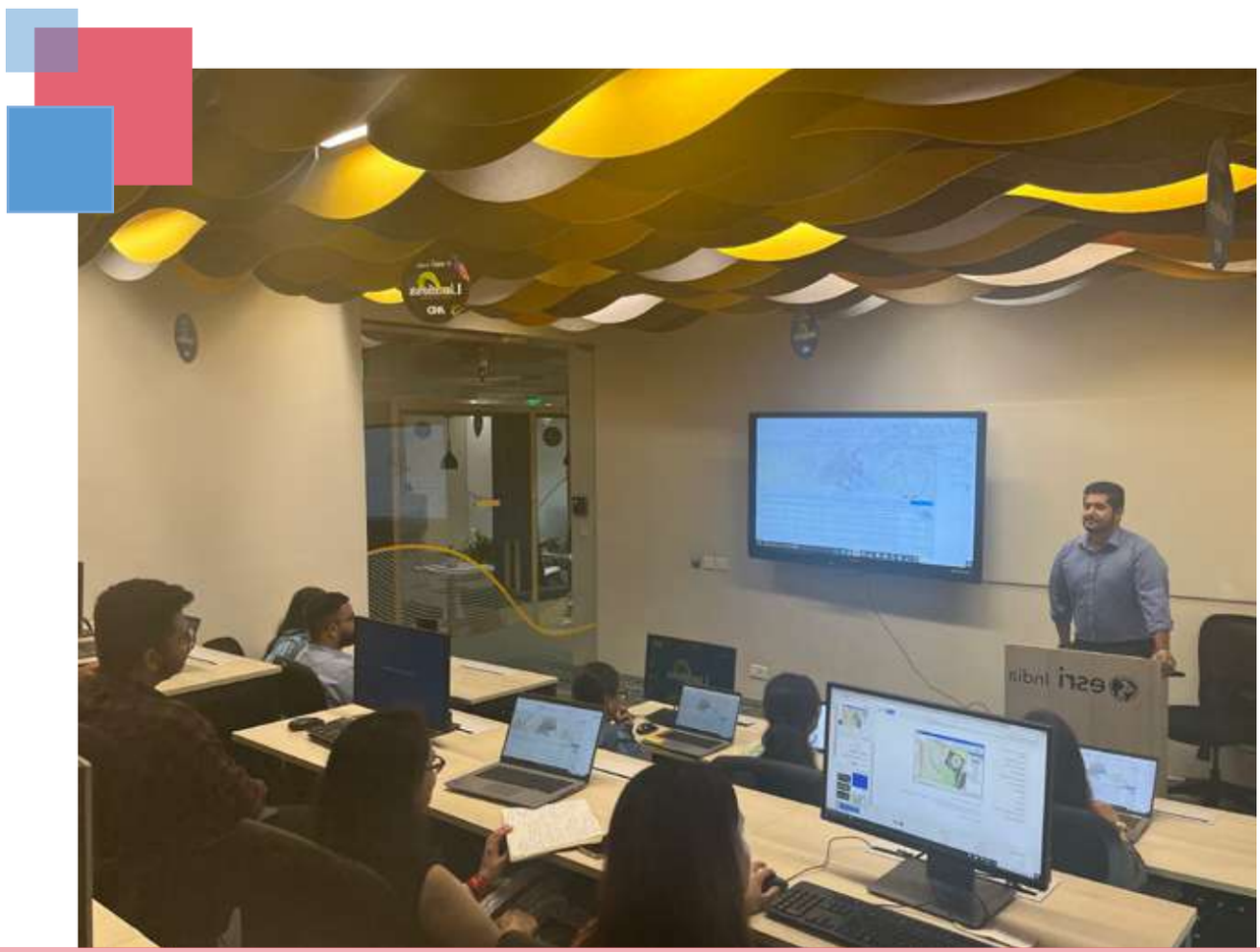
Two days (16 hours) -

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.



23. 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.

24. 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

25. 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

26. ArcGIS Online: Essential Workflows

One day (08 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.

27. 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.

28. 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.

29. 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.

30. 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.

31. 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.

32. Distributing Data Using Geodatabase Replication

Two days (16 hours) -

Overview
Extend access to GIS data. This course teaches best practices to plan and implement geodatabase replication to support enterprise editing workflows and data-sharing initiatives. Learn how to protect the integrity and performance of your production database as data is collected and updated to reflect real-world conditions.

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

Learn How To
- Determine the number and type of replicas needed to support your organization's GIS workflows and applications.
- Plan an efficient synchronization strategy for replicated data.
- Publish replicated data as a hosted feature layer and share it using a web app to support field data collection and editing.

Prerequisite:
ArcGIS Pro: Essential Workflows and Experience with enterprise geodatabases and versioned data is required.

33. Configuring Branch Versioning in ArcGIS

One day (08 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.

34. Introduction to Geospatial Concepts for Intelligence

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.

35. 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.

36. 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.

37. 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.

38. 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.

39. 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.

40. 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.

41. 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.

42. Working with Lidar Data in ArcGIS

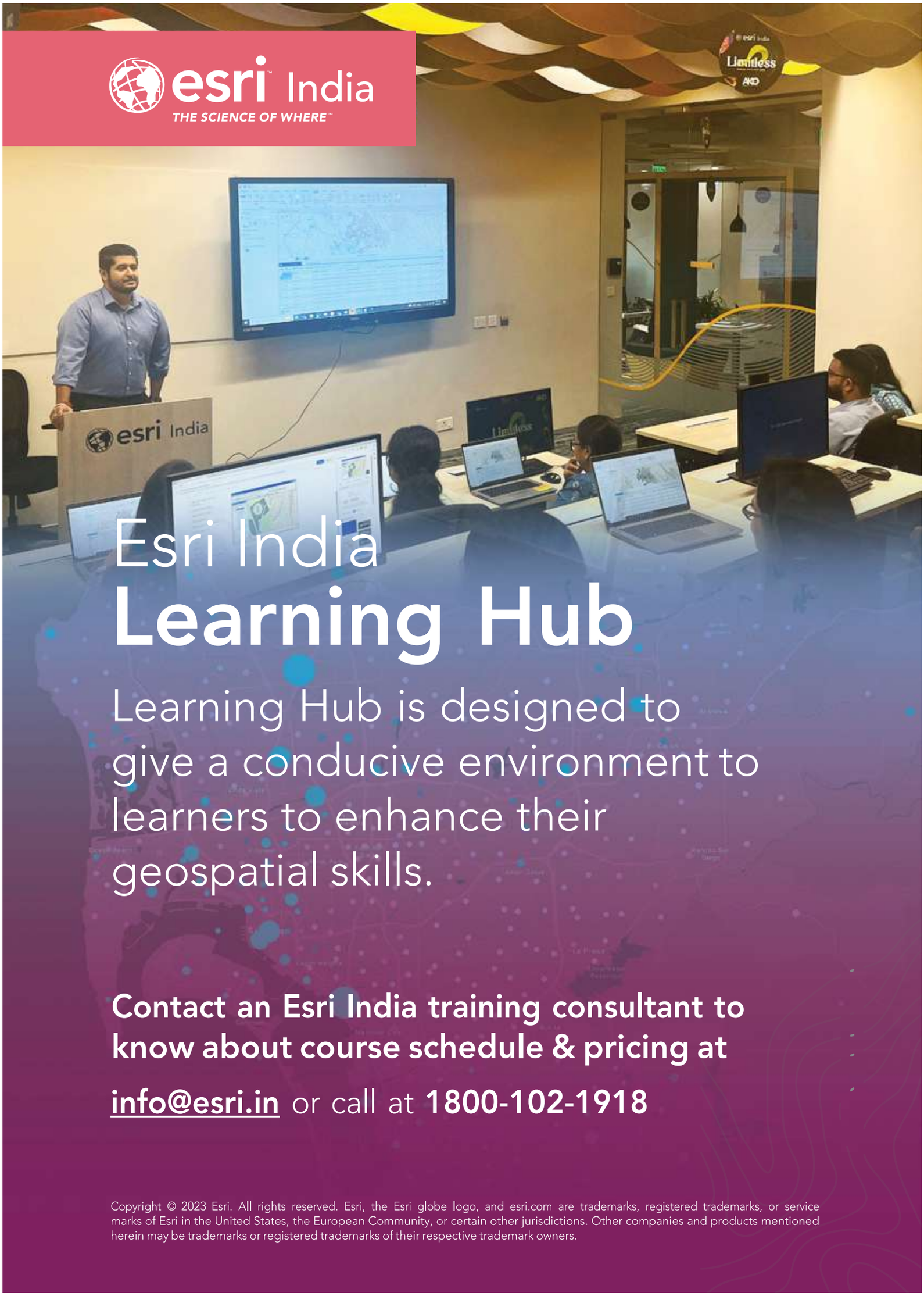
One day (08 hours) -

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.



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ABOUT ESRI INDIA

Established in 1996, Esri India Technologies Pvt. Ltd. (Esri India) is the leading provider of Geographic Information System (GIS) software, location intelligence, and mapping solutions in India. It has successfully delivered cutting-edge GIS solutions, powered by ArcGIS, to more than 6000 customers for applications in Land management, Utilities, Water, Infrastructure, Insurance, Retail, Disaster Management, Telecommunications, Urban Development, Smart Cities, Forestry, Natural Resources Management and more. For Indian customers, it has engineered a unique product called Indo ArcGIS. Headquartered in Noida (Delhi-NCR), the company not only enjoys association with more than 6,50,000 users across the country but has also got Great Place to Work® Certified in 2021, 2022, and 2023.

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