

Esri ArcGIS Pro

Esri ArcGIS Pro is an industry-leading GIS software for creating, managing, analyzing, and visualizing geospatial data. This desktop software is highly versatile with a long list of workflow-specific toolsets, full database integration tools, and support for automation, programming, and web app development.

This course provides students with an introduction to the fundamentals of ArcGIS Pro. Students will learn how to navigate the environment and create custom maps from GIS data as well as control various display methods and build queries from the data.

Duration

2 days

Who should attend?

Planners, scientists, engineers, and architects who are new to ArcGIS Pro.

Prerequisites

Basic familiarity with mapping concepts.

Questions?

Please call us at 800-336-3375.

Course Outline

Introduction to GIS Concepts

- Introduction to GIS
- GIS software
- Common GIS file formats and GIS terminology
- Downloading GIS files from online sources
- Components of GIS files
- Use Cases of GIS Applications in Civil and Environmental Engineering and Land Use Planning

Working in ArcGIS Pro

- Understanding ArcGIS Pro licensing, including licensing of specific Tool Sets, such as Spatial Analysis
- Understanding file formats, folder structures, and database structures used by ArcGIS Pro
- Starting a New Project
- Understanding the User Interface
- Working with Basemaps
- Working with Vector Data
- Working with Raster Data
- Creating 2D and 3D Maps
- Applying Visual Styles
- Using Toolboxes and Tools
- Labeling Features, Formatting Labels, and Annotation
- Creating Layouts
- Sharing Maps Online
- Creating Map Package Files

Esri ArcGIS Pro [CONTINUED]

Geodatabase Design

- Managing Data - Fields, Domains, Subtypes
- Working with Feature Classes
- Defining Geodatabase Schema
- Example Geodatabase based on the MassGIS Environmental Monitoring layers
 - Point Layers
 - MassDEP Water Quality Monitoring Stations
 - Shellfish Sampling Stations
 - Stream Gaging Stations
 - Line Layers
 - DEP Wetlands Linear Features
 - USGS Rivers and Streams 25k
 - Polygon Layers
 - DWM WPP Integrated List Watershed Delineations
 - DEP Wetlands Detailed
 - USGS Water Bodies 25k
- Data Management Tools
 - Attachments
 - Domains
 - Fields
 - File Geodatabase
 - Relationship Classes
 - Subtypes
 - Topology