



Civil Engineering

## Creating and Editing Data with ArcGIS Pro

## **Course Introduction**

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This Training program is designed to enable participants to understand and apply the best practices to create accurate geographic data and maintain it over time.

Participants will be able to master using a variety of ArcGIS Pro tools that streamline the editing process and decrease the potential for errors when updating your GIS database.

## **Target Audience**

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1. GIS Analyst
2. GIS Technician
3. Cartographer
4. Urban Planner
5. Geospatial Data Scientist
6. Environmental Analyst
7. Remote Sensing Specialist
8. Surveyor
9. Civil Engineer
10. Land Use Planner

## Learning Objectives

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- 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.

## Course Outline

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- Day 01

- **Introduction to Editing in ArcGIS Pro:**

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- Identifying ArcGIS editing workflow.
    - ArcGIS pro editing environment.
    - App and Project settings for editing.
    - Practical exercise on:

- Configuring ArcGIS Pro for editing “Practical Exercise”.
- Measurement units Investigate auto-save settings.
- Changing the map's coordinate system
- Setting layer select ability and edit ability
- Practical exercise on: Investigate coordinate systems
- Identify map and layer spatial references
- Measure the offset between layers
- Change the map's x,y coordinate system and add a new layer
- Lining up data
- Tracking changes in ArcGIS Pro
- Enable editor tracking on a feature class
- View data attributes
- Run the Enable Editor Tracking tool
- Make an edit

• Day 02

## **Creating 2D Features:**

- How to create a Feature?
- Feature Creation Workflow.

- How to manage Feature Templates?
- How to Create 2D Features Using Feature templates? “Practical Exercise”.

## **Maintaining Spatial Integrity:**

- Snapping
- Editing grid
- Dynamic constraints
- Undo/redo stack
- Use placement tools to create features “Practical Exercise”.

• Day 03

## **Modifying 2D features:**

- Evaluate geometry for modification
- Feature modification workflow
- Modification tools.
- Modify Existing Features “Practical Exercise”.

## **Editing attributes**

- Managing attributes.
- Investigating attributes.

- Using geodatabase schema in attribute edits.
- Edit Attributes in ArcGIS
- Pro “Practical Exercise”.

- Day 04

- How to use map topology while editing? “Practical Exercise”.
- Comparing map and geodatabase topology
- Use geodatabase topology to maintain spatial integrity “Practical Exercise”.
- How to create Annotation?
- Modifying Annotation.
- Using the Attributes pane to modify annotation.

- Day 05

- Introduction to Create and Modify 3D features.
- Points, Lines and polygons in 3D.
- Creating a new Multipatch Feature “Practical Exercise”.
- How to modify 3D Data in ArcGIS Pro?
- Modify Multipatch data in ArcGIS Pro “Practical Exercise”.

- ° Introduction to ArcGIS pro editing workflow.
- ° Comparing the feature creation and modification workflows.
- ° Apply the feature editing workflow “Practical Exercise”.
- ° Final Workshop.

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4250.00 \$	Spain - Barcelona
Sept. 22, 2025	Sept. 26, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 22, 2025	Dec. 26, 2025	5 days	4250.00 \$	UAE - Abu Dhabi