

Training the GIS Professional

Managing Geospatial Data in ArcGIS - 2 days

Overview

Achieve simplified data management that supports your organisation's needs.

This course takes you on an in-depth exploration of the geodatabase, the native data storage format for ArcGIS software. Best practices to create a geodatabase to centrally store and efficiently manage your organisation's authoritative geospatial data are covered. You will develop skills needed to configure unique geodatabase features that ensure data integrity and accuracy over time and a thorough understanding of file and enterprise geodatabase capabilities.

Goals

- Create a geodatabase, explore schema options, and evaluate appropriate data models.
- Add data to a geodatabase, edit feature geometry and attributes, and create a mosaic dataset to store and disseminate imagery.
- Define data rules and relationships to simplify data editing and ensure data integrity.
- Configure access to an enterprise geodatabase and load data into it.

Prerequisites

Completion of ArcGIS 2 - Essential Workflows for ArcGIS Pro or equivalent workig knowledge

Contact Us

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Topics Covered

- Why use a geodatabase? Types of data; advantages of using a geodatabase; exploring a geodatabase; lifecycle of a geodatabase.
- Improving data integrity with geodatabase structure. What is a schema? Working with ArcGIS Solutions; methods for improving data integrity; using a geodatabase to improve data integrity; work with subtypes and domains.
- Enforcing data integrity with contingent values. What are contingent values? Using contingent values; Managing contingent values.
- Associate nonspatial data with geographic data. Types of nonspatial data; considerations when designing a geodatabase; basics of cardinality; identify the type of cardinality; characteristics of relationship classes; workflow for creating a relationship class.
- Managing raster data. Sources of raster data; raster data management issues; storing rasters in a geodatabase; components of a mosaic dataset; advantages of mosaic datasets.
- Designing geodatabase topologies. What is geodatabase topology? Improve data quality with topology; using topology in your organisation; how topology works; identify topology rules for a workflow; workflow for validating topology.
- Building attribute rules. What are attribute rules? Types of attribute rules; workflow for building attribute rules; building batch calculation rules; building a constraint rule.
- Migration to an enterprise geodatabase. What is an Enterprise geodatabase? Types of geodatabases; comparing different geodatabase types; accessing an enterprise geodatabase.