



Information Technology

Implementing Versioned Workflows in a Multiuser Geodatabase

Course Introduction

A successful multiuser editing environment requires a sound versioning workflow that minimizes disruption to editors, ensures the integrity of GIS data, and integrates well with existing business workflows—all while maintaining optimal database performance. Learn a sound versioning workflow that minimizes disruption to editors, ensures the integrity of your organization's GIS data, and integrates well with existing business workflows. This training course explores a variety of versioned editing workflows and examines how versioning decisions impact data accuracy and database performance.

Target Audience

- Cloud Computing Engineer
- Computer Network Specialist
- Computer Support Specialist
- Database Administrator
- Information Technology Analyst
- Information Technology Leadership
- Information Security Specialist
- Software/Application Developer
- Web Developer
- Technology sales consultant

Learning Objectives

- Create a versioning workflow that meets your organization's needs.
- Efficiently load data into a versioned feature class.
- Effectively manage multiple geodatabase versions.
- Monitor and maintain database performance in a versioned editing environment.

Course Outline

- Day 01

ESTABLISHING THE MULTIUSER EDITING ENVIRONMENT

- Business needs
- Editing workflow options
- Choosing an editing workflow
- Geodatabase roles and tasks
- How to select an editing workflow in ArcGIS

ORGANIZING VERSIONS

- Defining a version
- Drawing the version tree
- Version tree scenarios

- Day 02

EDITING NON-VERSIONED DATASETS

- Non-versioned editing scenario
- No conflict detection
- Multiple users editing the same non-versioned data
- Supporting DBMS integrity constraints

EXAMINING DELTA TABLES IN THE VERSIONED ENVIRONMENT

- Edit isolation
- Registering simple data

- Registering related data
- Registering feature datasets
- Tracking edits

EXPLORING VERSIONING SYSTEM TABLES

- SDE_STATES table
- SDE_STATE_LINEAGES table
- SDE_MVTABLES_MODIFIED table

• Day 03

MERGING LINEAGES THROUGH RECONCILE AND POST

- Explicit reconcile and post
- Performing an explicit reconcile and post
- Merging protected lineages
- Implicit (auto) reconcile and post

REVIEWING CONFLICTS

- Defining a conflict
- Conflict resolution
- Would there be a conflict?

BULK LOADING INTO VERSIONS

- Bulk loading
- Data loaders
- Data loading scenarios
- Reconciling after a bulk load

- Storing bulk loads

• Day 04

COMPRESSING A VERSIONED GEODATABASE

- Managing the state tree
- Removing unreferenced records
- Migrating edits to the base tables
- Achieving a full compress
- Compress workflow

REGISTERING DATA AS VERSIONED WITH THE MOVE-TO-BASE OPTION

- Choosing the move-to-base option
- Saving edits to the DEFAULT version
- Posting edits to the DEFAULT version
- Managing conflicts

• Day 05

VERSIONED EDITING WITH THIRD-PARTY APPS

- Creating versioned views
- Querying with a versioned view
- Editing the DEFAULT version
- Editing other versions

IMPLEMENTING VERSIONING IN YOUR OWN ENVIRONMENT

- Identify business needs
- Design the version tree

- Data maintenance strategy
- Policy development

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 1, 2025	June 5, 2025	5 days	4250.00 \$	Bahrain - Manama
Aug. 11, 2025	Aug. 15, 2025	5 days	4950.00 \$	Indonsia - Jakarta
Dec. 8, 2025	Dec. 12, 2025	5 days	4250.00 \$	UAE - Abu Dhabi