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Course Name

Implementing Versioned Workflows in a Multiuser Geodatabase

Sector Name

Information Technology

Document Type

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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.

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Implementing Versioned Workflows in a Multiuser Geodatabase

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

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Implementing Versioned Workflows in a Multiuser Geodatabase

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.

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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

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Course Outline

✓ 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

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Course Outline

✓ Day 03

Merging Lineages Through Reconcile And Post

- ✓ Explicitly reconcile and post
- ✓ Performing an explicit reconciliation 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

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Course Outline

✓ Day 04

Compressing A Versioned Geodatabase

- ✓ Managing the state tree
- ✓ Removing unreferenced records
- ✓ Migrating edits to the base tables
- ✓ Achieving a full compression
- ✓ 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

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Course Outline

✓ 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

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 23, 2027	Aug. 27, 2027	5 days	4950.00 \$	France , Paris
March 14, 2027	March 18, 2027	5 days	3250.00 \$	KSA , Jeddah
June 13, 2027	June 17, 2027	5 days	4250.00 \$	Bahrain , Manama
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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