



Course Outline

ArcMap - Advanced Editing

In this class we will go beyond the Standard Editing toolbar and focus on the editing capabilities of the Advanced Editing Toolbar, the Topology Toolbar, and a python script that automates the alignment of large datasets. Through the use of these specialized tools you will be able to vector data contained in geodatabases more quickly, more accurately, and maintain spatial relationships within and between related datasets.

Course prerequisites: Completion of the GTAC ArcGIS Quick Start and Editing courses; or equivalent GIS skills such as digitizing using the snapping tools and the standard editing tools.

Lesson 1 – Advanced Editing Toolbar

Exercise goal: Learn to edit Forest Service data using the best ArcMap tools for each scenario.

- Review the Standard Editing toolbar, the Snapping toolbars, and the Create Features window.
- Review common workflows for vector editing in ArcMap.
- Learn about and experience the specific function of each tool on the Advanced Editing toolbar and the Feature Construction toolbar.
- Practice using the Trace tool and Snapping tools to manually create features that vertically align with each other.

Lesson 2 – Topological Editing

Exercise goal: Learn to use topology to find existing spatial errors, fix spatial errors, and edit data without creating spatial errors.

- Learn about Geodatabase Topology and the Error Inspector window to find and fix spatial errors within datasets, and between datasets.
- Use Map Topology and the Topology Toolbar to edit datasets while maintaining vertical alignment between features, as well as between different feature classes.

Lesson 3 – Vertical Integration Tool

Exercise goal: Learn to use specialized scripts that automate the process of finding alignment errors and fixing them.

- Use the Vertical Integration tool developed by the Forest Service Geospatial Technology and Application center to automate finding and fixing spatial alignment errors between related feature classes.

