

Linear Referencing

1-Day Course

Overview

This 1-day course teaches students the foundational concepts of linear referencing and their application in real world situations. Various linearly referenced datasets, such as street networks, pipeline systems and seismic lines, are introduced. Students are instructed how to create and edit routes and their measurements in an ArcMap edit session, and how to use the Linear Referencing Toolbar to effectively display and label those routes.

Audience

This course is for those who are already comfortable with the basics of ArcGIS, including editing, but wish to know how to create and use linear referencing to manage their linear GIS database.

Topics covered

Introduction and Display of Routes

- Routes and Events
- Measures
- Hatching

Complex Routes and Events

- Creating Complex Routes from existing features
- Point and Line Event Tables
- Displaying Events
- Event Table Calculations

Route Edits and Calibration

- Measure Calculations
- Route Edits
- Calibrations

Route Tools and Analysis

- Linear Referencing Toolbox
- Route Event Geoprocessing Wizard

Prerequisites and recommendations

Students should be familiar with the basic use of ArcGIS 9.2, including the topics covered in either the **Fundamentals of ArcGIS I** or **ArcGIS Desktop I** classes. Students should also be familiar with basic editing concepts and tools.