

Spatial Analysis and Data Manipulation with ArcToolbox

Course Length: 8 hrs

ArcGIS Version: 10.x

There are hundreds of tools available in ArcMap's Toolbox. These tools can save a tremendous amount of time when creating and combining data. They also facilitate sophisticated spatial analysis. This course will teach you best practices for working with tools, get you familiar with some of the more powerful but possibly lesser known tools and will show you how to string those tools together to create a simple model (a custom tool).

Audience

Those who are comfortable with ArcGIS Desktop and want to learn about the powerful tools that exist in ArcToolbox.

Topics Covered

- Working with Tools – Getting help with tools; Finding the right tool; Tool results; Setting toolbox environments; Creating a custom toolbox.
- Tools for Data Creation, Compilation, QC and Cleanup – Various tools including Dissolve, Merge, Raster Mosaic, Eliminate, Feature to Poly and others.
- Tools for Data Analysis and Overlay – Overlaying datasets for analysis; Union; Intersect; Extract Value to Points; Point Distance; Near and others.
- An Introduction to Model Builder – Automating workflows by stringing together several tools into a model using ArcMap's Model Builder interface; creating custom tools (no programming required!).

Format

In-person instruction with hands-on practice, and course materials you can keep.

Prerequisites and Recommendations

Attendees should have knowledge of Microsoft Windows® and have a comfortable working knowledge of the use of ArcGIS Desktop, including the topics covered in both the **Fundamentals of ArcGIS** and **Intermediate GIS Concepts** classes.