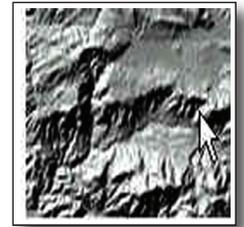


ARCGIS Spatial Analyst for Mining and Reclamation

This course explores how the ArcGIS Spatial Analyst extension uses raster and vector data in an integrated environment. This course teaches the basic raster concepts and shows how to create, run and edit spatial models. It focuses on problems that are best solved in a raster environment such as Approximate Original Contour topographic analysis, view-shed modeling, and reclaimed slopes hydrologic analysis.

Duration: 3 days
Course Code: GSA



TOPICS COVERED

Basic Concepts

- ▼ Raster Concepts
- ▼ Spatial Analyst Interface
- ▼ Querying Raster Themes
- ▼ Advanced Raster Display

Raster Structure Themes

- ▼ Creating Raster Datasets
- ▼ Raster Storage and Management
- ▼ Raster Projection
- ▼ Importing and Exporting Raster Datasets

Surface Analyses

- ▼ Calculating Density
- ▼ Interpolation Methods
- ▼ Interpolating
- ▼ Contours and Hillshading
- ▼ Visibility Analysis

Map Algebra Functions

- ▼ Writing Expressions
- ▼ Expression Syntax

Distance Measurements

- ▼ Euclidean Distance
- ▼ Cost Distance

Surface Hydrology

- ▼ Identifying Watershed Basins
- ▼ Surface Runoff Characteristics

WHO SHOULD ATTEND: Regulatory or AML scientist with degrees in geology, soil science, hydrology, civil or mining engineering, or related natural sciences.

COURSE PRE-REQUISITES: Students must have taken the **Introduction to GIS for Mining and Reclamation I** class and be very familiar with GIS concepts. **Class size is limited to 12-17 students, depending on location.**