

# 2-Day Workshop: Beginners GIS for IT Professionals

#### Overview

This course covers fundamental GIS concepts as well as how to query a GIS database, manipulate tabular data, edit spatial and attribute data, and present data clearly and efficiently using maps and charts.

Participants will learn how to use ArcGIS including: ArcMap<sup>TM</sup>, ArcCatalog<sup>TM</sup>, and ArcToolbox<sup>TM</sup> and explore how these applications work together to provide a complete GIS solution.

This 2-day course is for those who are new to ArcGIS and new GIS in general. This course will introduce basics of GIS on Day 1 followed by Day 2 hands-on experience working with census data, crime data and address matching/geocoding.

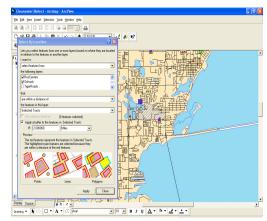
### **Prerequisites and Recommendations**

Participants should know how to use MS windows software *and have considerable IT background*. This course provides the fundamental ArcGIS knowledge and experience needed to enroll in *Intermediate GIS workshop* 

#### Goals

- Display feature and tabular data
- Work with georeferenced spatial data
- Query features using logical expressions
- Find features using spatial relationships
- Edit spatial and attribute data
- Associate tables with joins and relates
- Produce maps, reports, and graphs

## **Topics Covered**



- ArcGIS overview: Capabilities and applications; Interacting with the interface; Basic display
- Spatial data concepts: Representing spatial data and descriptive information
- ArcGIS data model: Geodatabases; Shapefiles; Coverages; Feature types; Attributes
- GIS software: Components; Functions; Applications
- Spatial coordinate systems and map projections: Georeferencing data;
- What map projections are; How ArcMap works with map projections
- Querying data: Selecting and identifying features; Creating reports and graphs
- Map displays: Creating; Symbolizing; Scaling; Adding map elements



- Crime Mapping
- Census data mapping and analysis
- Geocoding and address matching

### **Contact Us**

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