

Classes will be held at the Regional High Growth Training Center at 347 Coin Road, Somerset, KY. For more information about GIS/Smart Grid Software classes, contact 606-274-0060 or email

The one-week training for GIS/Smart Grid Software (including materials) is **TUITION-FREE.**

All candidates will be qualified and enrolled on a



Training is provided through:



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Geographic Information System (GIS)

**GIS/SMART  
GRID  
SOFTWARE**

ArcGIS Desktop I: Getting Started with GIS



**ESRI**

Environmental Systems Research Institute,

[www.esri.com](http://www.esri.com)

# Geographic Information System (GIS)/Smart Grid Software Training Course Overview

## ArcGIS Desktop I: Getting Started with GIS

The first portion of the course teaches the fundamental concepts and basic functions of a GIS, the properties of GIS maps, and the structure of a GIS database. In course exercises, you will develop basic software skills by working with ArcGIS Desktop tools to visualize geographic data, create maps, query a GIS database, and analyze data using common analysis tools.

After completing Desktop I, you will be able to

- Understand what GIS is, what it can do, and how others are using it.
- See how your organization can benefit from a GIS.
- Create a basic GIS map.
- Work with different types of geographic data.
- Access information about geographic datasets and features.
- Apply a systematic approach to analyzing data in order to find patterns and relationships.

## ArcGIS Desktop II: Tools and Functionality

The second portion of the course introduces the fundamental concepts of ArcGIS Desktop software and teaches how to use it to visualize, create, manage, and analyze geographic data. In course exercises, you will use ArcGIS tools to perform common GIS tasks and workflows.

By the end of the course, you will understand the range of ArcGIS Desktop functionality and be prepared to work with the software on your own to create GIS maps, work with geographic data, and perform GIS analysis.

After completing Desktop II, you will be able to

- Create a file geodatabase to store and manage geographic data.
- Create and edit geographic data to accurately represent real-world objects.
- Explore geographic data in ArcMap.
- Classify, symbolize, and label map features to improve map visualization and interpretation.
- Create data by geocoding addresses.
- Query and analyze GIS data to support decision making.
- Create maps to share with others.

## Who Should Attend?

- Individuals who do not have any prior GIS education or workplace experience with GIS.
- Managers and GIS support staff who infrequently use ArcGIS and need to understand how GIS fits into their organization.
- GIS professionals and others who have GIS knowledge but no ArcGIS software experience.

## Esri - The Role of GIS in Smart Grid

To implement smart grid, utilities will need the sturdy foundation of a healthy enterprise GIS for data management, planning and analysis, workforce automation, and situational awareness.

Utility operators will need a GIS-based view of their utility in order to make the best decisions about key issues such as managing meters and customers, and incorporating renewable energy. Field crews will depend even more heavily on GIS for implementing an advanced metering infrastructure (AMI) and keeping current with data collection.

In short, enterprise GIS will make it possible for utilities to build and operate a smart grid.