

Fundamentals of ArcGIS for Petroleum

Course Length: 16 hrs

ArcGIS Version: 10.0

Overview

ArcGIS is a powerful and complex tool for viewing and analyzing data. With so much functionality available in the software, it can be difficult to get started. This 2-day class teaches essential skills for being efficient with ArcGIS. Explore GIS data through ArcMap and create maps to illustrate relationships in the data. Learn methods of displaying data with symbols and text. See how to ask questions of the data and get answers. The lecture material and class exercises focus on examples and situations that are relevant to the oil and gas industry.

Audience

This course is primarily for those in the petroleum industry who want to learn the basics of ArcGIS.

Topics Covered

Day 1

- Starting ArcMap (What is GIS?; GIS Data; Working with ArcMap)
- Layer Properties (Table of Contents; Layer Properties; Symbolizing Data; Layer Files)
- Selections and Queries (Selecting Features; Interactive Selection; Select by Attributes; Select by Location; Using the Selection)
- Layouts (Data View and Layout View; Creating a Map; Map Elements; Map Output)

Day 2

- Basic Labeling (Labeling Features; Label Properties; Label Placement Options)
- GIS Data Types (GIS Data; Catalog Window; Item Description; Finding Data; Spatial Reference)
- Working with Tables (Table Basics; Sorting and Summing; Plotting Coordinates)
- Rasters (Raster Data Types; Raster Display Properties; Image Analysis Window; Clipping a Raster)

Prerequisites and Recommendations

Students should have knowledge of Microsoft Windows®.