

GIS Spatial Processing

ESRI 3D and Spatial Analyst Extensions

Course Overview

This course introduces the 3D and Spatial Analyst extensions of ESRI ArcMap. It enables users to display and analyze geologic data such as formation tops in 3D, in order to further enhance their workflows. An exercise using Model Builder that comes with ArcMap is, in fact, a simple workflow in itself.

Data can be provided by the customer, to render exercise most relevant to the students. ArcMap tools and extensions are used out-of-the-box in this course, and how to use the GIS tools available without specific customization.

Prerequisites

Intermediate level of GIS PETRIS training

Objectives

The course provides an introduction to two extensions of the ESRI GIS software ArcGIS (Spatial Analyst and 3D Analyst). An exercise introduces a processing tool, Model Builder.

After completing the course, students will understand:

- ▶ Browsing of 3D subsurface data
- ▶ Operating extensions to the industry standard GIS software product – ArcGIS
- ▶ Selecting appropriate GIS data sets
- ▶ Creating specialized map layers from field data
- ▶ Processing those layers in 3D
- ▶ Displaying them in a manner appropriate to E&P
- ▶ Some 3D interpretation of subsurface data
- ▶ Combining various tools to create workflows
- ▶ Extending all of the above for E&P scenarios
- ▶ Complementing GIS and pre-existing workflows

Course Format

- ▶ All training is conducted in ArcMap 9.x
- ▶ Course notes, lecture materials, and training exercises are provided
- ▶ The course consists of both lecture and hands-on exercises
- ▶ The course is conducted by one or two Petris instructors

Duration

The course is conducted over a 2 day period at the Petris training facilities in Houston, TX, London, UK or Toulouse, FR.

For more information, email training@petris.com.