esri UK

Training Course Outline

Training the GIS Professional

Using Spatial Analysis in ArcGIS Pro -2 days

Overview

In this course, you will learn essential concepts and a standard workflow that you can apply to any spatial analysis project. You will work with various ArcGIS tools to explore, analyse, and produce reliable information from data.

There is a standard workflow that can be applied to any analysis, these should begin with a question. The analysis question and criteria drive the data and tools used in an analysis.

There are four main types of analysis:

Proximity Overlay Statistical Temporal

This course will help you understand GIS analysis. It will help you answer questions about your data and the spatial relationships within the data. It teaches a standard GIS analysis workflow that can be applied to any analysis question.
During the course You will use this workflow to perform types of analysis that will answer real-world questions.

Who should attend

- GIS professionals who need to analyse spatial patterns and need to know how data is moving and changing in their project area. Also, those who need to know how accurate their data is and how this accuracy will affect their results

Prerequisites

Completion of An Introduction to ArcGIS Pro for GIS Newcomers or equivalent working knowledge

Goals

- Quantify spatial patterns using spatial statistics and analyse change over time to identify emerging hot spots.
- Use interpolation and regression analysis to explain why patterns occur and predict how patterns will change.
- Prepare data and choose appropriate tools and settings for an analysis.
- Examine features and distribution patterns within an area of interest.

Contact Us

For GIS training enquiries and bookings visit esriuk.com/learning, email us at learning@esriuk.com or call us on 01296 745504

Topics Covered

- Building a foundation for spatial analysis
- Planning and preparing for spatial analysis
- Proximity analysis
- Vector Overlay analysis and the Model Builder
- Raster Overlay analysis
- Surface Interpolation
- Spatial Patterns
- Temporal Patterns
- Suitability modelling
- Spatial Statistics
- Space-time analysis
- Geographically weighted regression
- Geostatistical interpolation
- Regression analysis (Optional)

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