esri UK

Training Course Outline

Training the GIS Professional

Introduction to Geospatial Concepts for Intelligence using ArcGIS AllSource -2 days

Overview

Apply geospatial capabilities to support mission success.

Learn foundational geospatial concepts that support the intelligence cycle. In the context of real-world scenarios, you will practice applying ArcGIS AllSource tools and workflows to prepare, visualise, analyse, and disseminate data that supports intelligence operations.

Goals

- Identify and prepare geospatial data and other content for visualisation and analysis.
- Organise, create, and manage geospatial data stored in a geodatabase.
- Display geospatial data and imagery on a map.
- Create and disseminate information products to support mission planning and intelligence operations.

Prerequisites

There are no prerequisities for this course.

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

- Geospatial intelligence analysis in ArcGIS. Intelligence Cycle and geospatial analysis workflow; ArcGIS AllSource in the ArcGIS system; Geographic data types; ArcGIS AllSource project structure; e; ArcGIS AllSource interface and structure
- Data preparation for operational planning. Preparing data for analysis; Understanding metadata; Cleaning data; Data organisation in ArcGIS AllSource; Loading data into a geodatabase
- Data and layer properties. Data and layers; Data visualisation; Symbolising layers in ArcGIS AllSource; Selecting features of interest; Adding value to your map; Using definition queries
- Spatial reference. Shape of the earth; Datums; Modeling the earth; Geographic and projected coordinate systems; UTM and MGRS coordinate systems; Geographic or projected coordinate system?
- Raster fundamentals. Raster sources; Raster resolutions; Raster uses; Defining a mosaic dataset; Stretch types; Raster processing; Orthorectification; Pan sharpening.
- Working with vectors. Sources of vector data; Cartographic generalisations; Vector digitisation pitfalls; Working with vector data; Creating vector data.
- Introduction to spatial analysis. What is spatial analysis? Buffer analysis; Digital elevation models; Visibility analysis
- Map production. Products for dissemination; Creating a map; Elements of a map layout; Product dissemination.

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