

Training the GIS Professional

Getting Started with LiDAR - 1 day

Overview

This one day course will provide you with the necessary skills for working with lidar data within ArcGIS Pro. The course uses a combination of lectures, demonstrations and exercises to process different lidar file formats supplied by the UK's open data portals, especially data provided by the Environment Agency.

You will learn how to process lidar files representing Digital Surface Models and Digital Terrain Models as well as defining a workflow for processing and managing point cloud data within a LAS Dataset. Finally, you will learn how to share your data products and analysis to your portal.

Who should attend

- GIS Analysts
- GIS Users
- Imagery Analysts
- GIS Professionals

Goals

- Understand what lidar data is and its applications
- Convert source lidar files from UK open data portals using models and tools.
- Managing lidar data as a single raster tile, as a geodatabase mosaic dataset and as a LAS Dataset.
- Analyse lidar data to investigate real-world problems.
- Learn how to share Lidar data to your portal.

Topics Covered

- What is Lidar?: What is lidar? Applications of Lidar, The Lidar system, Lidar returns, Lidar formats, tools for processing lidar data.
- Managing surfaces with mosaic datasets: Introducing the geodatabase mosaic dataset, workflows to manage the mosaic dataset, working with functions and the Raster Function Editor.
- Working with Point Clouds: What is a Point Cloud? What is a LAS Dataset? Creating a LAS Dataset, the Optimised LAS format, symbolising LAS Datasets
- LAS Dataset Tools: LAS Dataset ribbon, editing LAS file values, ArcGIS Pro classification tools
- Working with Lidar in the ArcGIS Platform: Lidar in ArcGIS Online, ArcGIS Online surface tools; publishing a local scene containing lidar data, client applications

Prerequisites

Course attendees should have proficient ArcGIS Pro and ArcGIS Online skills (or equivalent knowledge) which can be gained by attending one of the following courses:

Introduction to ArcGIS Pro for GIS Newcomers
Introduction to ArcGIS Pro for ArcGIS Professionals (now retired)
or Migrating from ArcMap to ArcGIS Pro

Contact Us

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