

# Advanced Geospatial Analysis: GIS, LiDAR Data Processing, and Modeling

*London (UK)*

*10 - 14 August 2026*

UK Traininig

# PARTNER



# Advanced Geospatial Analysis: GIS, LiDAR Data Processing, and Modeling

Code: IT28 From: 10 - 14 August 2026 City: London (UK) Fees: 5100 Pound

## Introduction

Welcome to the Advanced Geospatial Analysis Course, your gateway to mastering modern techniques in geospatial analysis and LiDAR data processing. This comprehensive program is tailored to equip participants with the skills and expertise to navigate the evolving world of geospatial analysis, utilizing cutting-edge tools and methods to extract insights from complex spatial data.

Through this geospatial analysis course, you will gain hands-on experience in LiDAR data processing steps, from data acquisition to modeling, and explore its applications in fields like urban planning, environmental studies, and beyond. Whether you're new to geospatial analysis or a seasoned professional seeking to enhance your skills, this program offers the essential knowledge and practical training to advance your career.

## Course Objectives

By the end of this course, you will:

- Understand what geospatial analysis is and its significance across industries.
- Gain a clear understanding of what LiDAR data processing is, its characteristics, and best practices.
- Develop expertise in geospatial analysis techniques, including spatial modeling, visualization, and interpretation.
- Acquire hands-on skills in LiDAR data processing training, covering key steps such as preprocessing, classification, and integration with other datasets.
- Learn to implement advanced geospatial analysis methods for real-world applications, such as urban planning, forestry, and environmental management.

## Course Outlines

### Day 1: Introduction to GIS and Geospatial Analysis

- What is geospatial analysis? Definition, meaning, and its role in solving real-world challenges.
- Overview of spatial data models, coordinate systems, and GIS fundamentals.
- Introduction to geospatial analysis software and tools for data manipulation.
- Data acquisition methods and sources for GIS projects.

### Day 2: Advanced GIS Analysis Techniques

- Advanced geospatial analysis methods, including geoprocessing, buffering, and overlay analysis.
- Raster analysis and creating spatial models.
- Visualization techniques for geospatial data using cartography principles.



### Day 3: LiDAR Data Processing Fundamentals

- Understanding what LiDAR data processing is and its importance in spatial analysis.
- LiDAR data processing steps, including acquisition, preprocessing, and filtering.
- Hands-on training on LiDAR data processing course tools to create Digital Elevation Models DEMs.

### Day 4: LiDAR Data Applications and Advanced Techniques

- Applications of LiDAR data processing in urban planning, forestry, and environmental studies.
- Integrating LiDAR data processing training with geospatial datasets for deeper insights.
- Visualization and feature extraction from LiDAR datasets.

### Day 5: Geospatial Modeling

- Fundamentals of geospatial modeling concepts and their applications.
- Designing, parameterizing, and implementing geospatial analysis projects.
- Validation and accuracy assessment of geospatial models for practical use.

### Why Attend This Course: Wins & Losses!

- Earn a geospatial analysis certificate to validate your expertise in advanced GIS and LiDAR techniques.
- Gain competitive skills in the highly sought-after field of geospatial analysis and LiDAR data processing training.
- Participate in a practical, hands-on learning experience designed to enhance your proficiency in geospatial analysis techniques.
- Prepare to lead geospatial analysis projects with confidence, backed by advanced knowledge and industry best practices.

### Conclusion

The Advanced Geospatial Analysis Course provides a robust foundation in what geospatial analysis is and how it drives solutions to complex spatial challenges. With practical exposure to LiDAR data processing steps and advanced geospatial analysis techniques, this course ensures you're equipped to lead innovative projects in diverse sectors.

Join this program today and unlock your potential to transform geospatial data into actionable insights. Gain the skills, earn your geospatial analysis certificate, and become a leader in spatial analysis and LiDAR data processing applications.





## Blackbird Training Cities

### Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



Salzburg (Austria)



Florence (Italy)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



## Blackbird Training Cities

### USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

### ASIA



Baku (Azerbaijan)  
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)  
(Kuwait)



Phuket (Thailand)



Shanghai (China)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City



Seoul (South Korea)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut





## Blackbird Training Cities

### AFRICA



Kigali (Rwanda)



Cape Town ( South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



## Blackbird Training Clients



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



Booking.com  
Netherlands



Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia  
KSA



Mabruk Oil Company  
Libya



Saudi Electricity  
Company,  
KSA



BADAN PENGELOLA  
KEUANGAN Haji,  
Indonesia



NATO  
Italy



ENI CORPORATE  
UNIVERSITY,  
Italy



Gulf Bank  
Kuwait



General Organization for  
Social Insurance  
KSA



Defence Space Administration  
Nigeria



National Industries  
Group (Holding),  
Kuwait



Hamad Medical  
Corporation,  
Qatar



USAID  
Pakistan



STC Solutions,  
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS  
UN.



Authority for

UK Training  
**PARTNER**



## Blackbird Training Categories

### Management & Admin

Entertainment & Leisure  
Professional Skills  
Finance, Accounting, Budgeting  
Media & Public Relations  
Project Management  
Human Resources  
Audit & Quality Assurance  
Marketing, Sales, Customer Service  
Secretary & Admin  
Supply Chain & Logistics  
Management & Leadership  
Agile and Elevation

### Technical Courses

Artificial Intelligence (AI)  
Hospital Management  
Public Sector  
Special Workshops  
Oil & Gas Engineering  
Telecom Engineering  
IT & IT Engineering  
Health & Safety  
Law and Contract Management  
Customs & Safety  
Aviation  
C-Suite Training



 International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom

 +44 7401 1773 35  
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

