

Data Extraction and Analysis from Drones

Amsterdam

14 - 18 July 2025

UK Training

PARTNER



Data Extraction and Analysis from Drones

Code: IT28 From: 14 - 18 July 2025 City: Amsterdam Fees: 4900 Pound

Introduction

The Advanced Data Extraction and Analysis from Drones course is designed to equip participants with the necessary skills and knowledge to effectively manage the data extraction process and analyze data collected from drones. Drones have revolutionized data collection across various industries, offering high-resolution imagery, LiDAR data, and other sensor readings, which present unique opportunities for data-driven decision-making.

This course covers modern and advanced techniques in data extraction and analysis, enabling participants to unlock valuable insights from drone data. By understanding what is data extraction, its methods, and its applications, participants will be able to enhance their capabilities as data extraction specialists.

Course Objectives

By the end of this course, participants will:

- Understand the fundamentals of drone data collection and its applications across different industries.
- Gain proficiency in extracting and preprocessing data from various sensors mounted on drones.
- Explore advanced techniques for analyzing drone data, including image processing, point cloud analysis, and machine learning algorithms.
- Learn how to interpret and visualize drone data to derive meaningful insights.
- Develop skills to integrate drone data with existing geospatial data and other datasets for comprehensive analysis.
- Understand the legal and ethical considerations associated with drone data collection and data extraction management.
- Comprehend the importance of data extraction in various industries and its role in data analysis.

Course Outlines

Day 1: Introduction to Drone Data Collection and Processing

- Overview of drone technology and its applications.
- Understanding different types of sensors and the data they collect, including data extraction types.
- Introduction to data preprocessing techniques for drone data.
- Hands-on exercises on data extraction and preprocessing using industry-standard software.

Day 2: Image Processing and Analysis

- Fundamentals of image processing techniques for drone imagery.
- Introduction to photogrammetry and orthomosaic generation.
- Advanced image analysis techniques for feature extraction and object detection.



- Hands-on exercises on image processing and analysis using specialized software.

Day 3: LiDAR Data Processing and Point Cloud Analysis

- Introduction to LiDAR technology and its applications in drone data collection.
- Point cloud data processing and filtering techniques.
- Extracting terrain models, 3D structures, and vegetation analysis from point cloud data.
- Hands-on exercises on LiDAR data processing and point cloud analysis using industry-standard software.

Day 4: Machine Learning for Drone Data Analysis

- Introduction to machine learning algorithms for drone data analysis.
- Supervised and unsupervised learning techniques applied to drone data.
- Feature engineering and selection for optimal model performance.
- Hands-on exercises on machine learning for drone data analysis using popular libraries and tools.

Day 5: Integration, Interpretation, and Visualization of Drone Data

- Integration of drone data with other geospatial datasets.
- Techniques for interpreting and deriving insights from drone data analysis.
- Data visualization and storytelling using drone data.
- Ethical and legal considerations in drone data analysis.
- Final project and presentation showcasing data extraction skills acquired during the course.

Why Attend this Course: Wins & Losses!

- Gain a comprehensive understanding of data extraction including its definition, meaning, and importance.
- Master various methods of data extraction and learn how to apply them in real-world scenarios.
- Develop expertise in data extraction and analysis using modern technologies like LiDAR and machine learning.
- Enhance your career as a data extraction analyst or data extraction specialist with practical skills and knowledge.
- Learn to integrate and interpret complex datasets for strategic decision-making.
- Stay updated on emerging trends in digital data extraction and drone technology.

Conclusion

By the end of this course, participants will have a strong understanding of data extraction, including the meaning of data extraction, the definition of data extraction, and the importance of data extraction in various applications. They will be equipped with the skills necessary to navigate complex data analysis scenarios, allowing them to extract valuable insights from drone data and maximize its utility across industries.

This course prepares participants for roles such as data extraction analyst, data extraction specialist, and other positions in data extraction and management, ensuring they can contribute effectively to their organizations' success.



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)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



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)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



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,
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

