

## Remote Sensing in Environmental Management

*Barcelona (Spain)*

*13 - 17 January 2025*

UK Training

# PARTNER



# Remote Sensing in Environmental Management

Code: NC28 From: 13 - 17 January 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

The Advanced Remote Sensing in Environmental Management course is designed to provide participants with a comprehensive understanding of the most modern and advanced remote sensing techniques used in environmental management. The course will cover a wide range of topics, including data acquisition, image processing, and analysis, as well as the application of remote sensing in various environmental management tasks. Participants will gain hands-on experience through practical exercises and case studies, enabling them to apply their knowledge effectively in real-world scenarios.

## Course Objectives

- To introduce participants to advanced remote sensing concepts and techniques in the context of environmental management.
- To provide participants with a comprehensive understanding of data acquisition methods and satellite imagery.
- To familiarize participants with advanced image processing and analysis techniques for extracting environmental information.
- To explore the application of remote sensing in environmental monitoring, land cover classification, change detection, and other relevant tasks.
- To equip participants with the skills to interpret and integrate remote sensing data with other geospatial information for effective environmental management.

## Course Outline

### Day 1

#### Introduction to Remote Sensing in Environmental Management

- Overview of remote sensing principles and technologies
- Role and significance of remote sensing in environmental management
- Types of remote sensing platforms satellites, drones, etc. and sensors
- Introduction to key remote sensing data sources and products

### Day 2

#### Remote Sensing Data Acquisition and Preprocessing

- Data acquisition methods and sources satellite imagery, aerial photography, LiDAR, etc.
- Data preprocessing techniques radiometric and geometric corrections, atmospheric correction, etc.
- Hands-on exercises on data acquisition and preprocessing



### Day 3

#### Image Processing and Analysis Techniques

- Image enhancement and display techniques
- Image classification methods supervised, unsupervised, object-based, etc.
- Change detection and time-series analysis
- Practical exercises on image processing and analysis

### Day 4

#### Application of Remote Sensing in Environmental Monitoring

- Land cover and land use mapping
- Vegetation monitoring and assessment
- Water quality and coastal zone management
- Case studies and practical applications

### Day 5

#### Integration and Interpretation of Remote Sensing Data

- Integration of remote sensing data with GIS and other geospatial information
- Interpretation and analysis of remote sensing results
- Effective communication of remote sensing information for decision-making
- Final project or case study presentation



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