



# أنظمة المعلومات الجغرافية (GIS) للتنمية المستدامة في العالم العربي

**Duration:** 5 Days

**Language:** ar

**Course Code:** IND04 - 127

## Objective

:Upon completion of this course, participants will be able to

- Understand the core principles of GIS and its role in sustainable development.
- Gain proficiency in GIS software for data collection, management, analysis, and visualisation.
- Apply GIS techniques to environmental management and sustainable development projects.
  - Develop the ability to interpret and communicate spatial data effectively.
  - Explore advanced GIS applications and stay updated with emerging trends.

## Audience

This course is intended for

- Environmental and Sustainability Professionals
  - Urban and Regional Planners
- Researchers and Academics in Geography and Environmental Sciences
  - Policy Makers and Government Officials

- Professionals in Natural Resource Management
- Anyone interested in enhancing their GIS skills for sustainable development

## Training Methodology

This course employs a blend of interactive lectures, hands-on exercises, and group discussions. Participants will engage in practical sessions using leading GIS software, ensuring a thorough understanding of the tools and techniques. Case studies and real-world examples will be used to illustrate key concepts. Collaborative projects and peer reviews will .foster a dynamic and engaging learning environment

## Summary

This comprehensive course offers an in-depth exploration of Geographic Information Systems (GIS), focusing on their application in sustainable development. Over five days, participants will gain expertise in GIS tools and techniques, enabling them to analyse spatial data effectively and make informed decisions to promote sustainability. The course emphasises practical applications and real-world case studies, ensuring participants can apply what they .have learned directly to their professional roles

## Course Content & Outline

### Section 1: Introduction to GIS and Sustainable Development

- Overview of GIS: Definitions and Key Concepts
- Importance of GIS in Sustainable Development
  - Introduction to GIS Software and Tools

## Section 2: Spatial Data Collection and Management

- Methods of Spatial Data Collection
- Data Management and Quality Control
- Hands-on Session: Collecting and Managing Spatial Data

## Section 3: Spatial Analysis and Visualisation

- Fundamentals of Spatial Analysis
- Advanced Spatial Analysis Techniques
- Visualisation of Spatial Data using GIS Tools
- Practical Exercise: Spatial Analysis and Mapping

## Section 4: GIS Applications in Environmental Management

- GIS for Environmental Monitoring and Assessment
- Case Studies: GIS in Biodiversity Conservation, Climate Change, and Natural Resource Management
- Workshop: Applying GIS to Environmental Projects

## Section 5: Advanced GIS Applications and Future Trends

- Emerging Trends in GIS Technology
- Integration of GIS with Other Technologies (e.g., Remote Sensing, AI)
- Final Project: Developing a GIS-based Sustainable Development Plan

## Certificate Description

Holistique Training. عند إتمام هذه الدورة التدريبية بنجاح، سيحصل المشاركون على شهادة إتمام التدريب من (e-Certificate) وبالنسبة للذين يحضرون ويكملون الدورة التدريبية عبر الإنترنت، سيتم تزويدهم بشهادة إلكترونية من Holistique Training.

وخدمة اعتماد التطوير المهني (BAC) معتمدة من المجلس البريطاني للتقييم Holistique Training شهادات ISO 21001 و ISO 9001 كما أنها معتمدة وفق معايير (CPD) المستمر.

لهذه الدورة من خلال شهادتنا، وستظهر هذه النقاط على شهادة إتمام (CPD) يتم منح نقاط التطوير المهني المستمر واحدة عن كل ساعة CPD يتم منح نقطة CPD ووفقاً لمعايير خدمة اعتماد Holistique Training. التدريب من

لأي دورة واحدة نقدمها حالياً CPD حضور في الدورة. ويمكن المطالبة بحد أقصى قدره 50 نقطة

## Categories

البناء والعقارات, الهندسة

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