BLACKBIRD FOR TRAINING

Geographic Information Systems (GIS) Fundamentals & Applications

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Kuala Lumpur (Malaysia)

UK Traininig
PARTNER



Geographic Information Systems (GIS) Fundamentals & Applications

Ref: 20222997_221393 Duration: 1 week Location: Kuala Lumpur (Malaysia) Fees: 4900 GBP

Course Description

This comprehensive 1-week course introduces participants to Geographic Information Systems GIS fundamentals and applications. Students will learn essential GIS concepts, data management techniques, spatial analysis methods, and practical applications using industry-standard software. The course combines theoretical knowledge with hands-on exercises to provide a solid foundation in GIS technology and its real-world applications.

Learning Objectives

- Understand core GIS concepts and their applications in various fields
- Master data input, storage, and management techniques in GIS software
- Perform basic to advanced spatial analysis and data visualization
- Apply GIS skills to solve real-world problems and create informative maps
- Gain proficiency in using industry-standard GIS software

Course Modules

Day 1: Introduction to GIS and Spatial Data

- GIS fundamentals and applications
- Spatial data types and structures
- Coordinate systems and map projections
- Introduction to GIS software interface

Day 2: Data Management and Cartography

- Data input, editing, and quality control
- Database management in GIS
- Cartographic principles and map design
- Thematic mapping techniques

Day 3: Spatial Analysis Fundamentals

- Vector and raster analysis methods
- Attribute and spatial queries
- Proximity analysis and buffering
- Overlay analysis techniques



Day 4: Advanced Spatial Analysis

- Network analysis and routing
- Terrain analysis and 3D visualization
- Spatial interpolation methods
- Remote sensing integration with GIS

Day 5: GIS Applications and Project Work

- GIS in urban planning and environmental management
- Web GIS and mobile applications
- Hands-on project: Applying GIS to solve a real-world problem
- Best practices and future trends in GIS

Practical Wins for Participants

- Create professional-quality maps and spatial visualizations
- Perform complex spatial analyses to support decision-making
- Develop a GIS project portfolio demonstrating practical skills
- Gain proficiency in industry-standard GIS software for career advancement

