

Advanced Web Map Preparation

Istanbul (Turkey)

22 - 26 June 2025

UK Traininig

PARTNER



Advanced Web Map Preparation

Code: IT28 From: 22 - 26 June 2025 City: Istanbul (Turkey) Fees: 4600 Pound

Introduction

The Advanced Web Map Preparation course is designed to build on the knowledge gained from the Advanced Geospatial Analysis course, with a focus on creating interactive, dynamic web maps using the latest web mapping technologies. This course provides participants with the tools and techniques needed to develop sophisticated web mapping GIS applications that are visually engaging, interactive, and capable of delivering insightful information to a wide range of users online. Whether you're a GIS professional or a web developer, this course will teach you how to integrate cartography principles with web design to create user-friendly and responsive map cartography solutions.

Course Objectives

By the end of this course, participants will be able to:

- Understand key web mapping technologies and frameworks used for building interactive web maps.
- Gain hands-on experience in cartography, including the design and development of web maps with advanced features.
- Integrate geospatial data analysis results into web maps and create dynamic and responsive maps for online use.
- Learn the principles of responsive web design for maps, ensuring an optimal viewing experience on multiple devices.
- Optimize web map performance, focusing on data streaming, caching, and reducing load times for a seamless user experience.
- Explore integration techniques with other web technologies like geolocation APIs, data visualization libraries, and content management systems CMS.
- Gain a deeper understanding of the basics of cartography, cartography principles, and their application in web mapping projects.

Course Outlines

Day 1: Introduction to Web Mapping Technologies

- Overview of web mapping frameworks: An introduction to popular frameworks like Leaflet, Mapbox, and Google Maps API used in web mapping GIS.
- Introduction to JavaScript, HTML, and CSS for web mapping: Learning the programming languages necessary for building web maps and styling them effectively.
- Understanding spatial data formats: Working with data formats such as GeoJSON, TopoJSON, and others essential for web mapping.
- Exploring cartography principles and design best practices: How cartography plays a key role in effective map creation and user interaction.



Day 2: Building Interactive Web Maps

- Setting up a web mapping development environment: Preparing the tools and environment for building interactive web maps.
- Creating basic interactive maps with Leaflet.js: Hands-on training in creating web maps using the Leaflet.js framework.
- Adding layers and markers to maps: Understanding how to add data layers, markers, and interactivity to web maps.
- Implementing user interactions: Adding features like zooming, panning, and popup windows to enhance user engagement.

Day 3: Advanced Web Mapping Techniques

- Incorporating geospatial data analysis results: Integrating geospatial data into web maps for deeper insights.
- Visualizing raster data: Using techniques like WebGL and tilesets to display raster data e.g., DEMs on web maps.
- Advanced features: Implementing features such as clustering, heatmaps, and animated overlays to enrich web mapping functionality.
- Responsive web design: Learning how to adapt web maps for multiple devices and screen sizes to improve accessibility.

Day 4: Customizing and Styling Web Maps

- Customizing map styles and base maps: Using tools like Mapbox Studio to create custom map cartography styles.
- Incorporating external data sources: Integrating APIs and external databases into web maps to enhance functionality.
- Thematic mapping and data visualization: Exploring techniques for visualizing data and presenting thematic maps through web design.

Day 5: Deploying and Sharing Web Maps

- Hosting web maps online: Using platforms such as GitHub Pages or Heroku to deploy web maps.
- Integrating maps into websites: Adding web maps to websites and web applications for seamless user access.
- Implementing security and access control: Ensuring the security of web maps and controlling user access for sensitive data.
- Promoting and sharing web maps: Strategies for sharing interactive web maps with stakeholders and the public, increasing engagement.

Conclusion

The Advanced Web Map Preparation course offers an in-depth exploration of web mapping technologies, providing participants with the skills needed to design and develop powerful interactive web maps. By integrating cartography principles, GIS data, and advanced web design techniques, participants will be prepared to create user-friendly, dynamic maps that offer valuable insights and can be accessed by a global audience. With a focus on responsive web design, web map optimization, and effective sharing strategies, this course ensures that you are well-equipped to leverage web mapping technologies in your professional projects.



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)
(Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



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)

Africa



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)



Blackbird Training Cities

Asia



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



UK Training
PARTNER



Blackbird Training Categories

Management & Admin

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

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



BLACKBIRD
FOR 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

UK Training

PARTNER

