

## Web Development and Best Practices

*Barcelona (Spain)*

*3 - 7 November 2025*

UK Traininig

# PARTNER



# Web Development and Best Practices

Code: IT28 From: 3 - 7 November 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

The field of web development is constantly evolving, and it is crucial for developers to stay up to date with the latest technologies and best practices. This 5-day course aims to provide participants with a comprehensive introduction to web development and equip them with the necessary skills to build modern, high-quality websites. From frontend to backend development, this course covers essential concepts, tools, and techniques used in the industry.

## Course Objectives

- Understand the fundamentals of web development, including the client-server architecture and HTTP protocol.
- Gain knowledge of HTML, CSS, and JavaScript to create responsive and interactive web pages.
- Explore frontend frameworks and libraries, such as React or Angular, to build dynamic user interfaces.
- Learn about backend development using server-side technologies like Node.js and databases such as MongoDB.
- Understand the importance of web accessibility, security, and performance optimization.
- Familiarize yourself with version control systems, like Git, for collaborative web development.
- Gain practical experience through hands-on projects and exercises.

## Course Outlines

### Day 1: Introduction to Web Development

- Overview of web development and its importance.
- Client-server architecture and HTTP protocol.
- Introduction to HTML and creating web pages.
- Basics of CSS for styling and layout.
- Introduction to JavaScript for Interactivity.

### Day 2: Frontend Development

- Responsive web design and CSS frameworks.
- Advanced CSS techniques for layouts and animations.
- Introduction to frontend frameworks e.g., React, Angular.
- Managing state in frontend applications.
- Introduction to API integration and AJAX.

### Day 3: Backend Development

- Introduction to backend development and server-side technologies.



- Basics of Node.js and Express.js framework.
- Working with databases e.g., MongoDB.
- Introduction to RESTful APIs.
- User authentication and session management.

#### Day 4: Web Development Best Practices

- Web accessibility and inclusive design.
- Security best practices e.g., input validation, encryption.
- Performance optimization techniques e.g., caching, minification.
- Search engine optimization SEO basics.
- Introduction to testing and debugging.

#### Day 5: Project and Deployment

- Working on a real-world web development project.
- Collaborative development using Git and GitHub.
- Deployment options for web applications e.g., hosting, cloud platforms.
- Continuous integration and deployment CI/CD pipelines.
- Final project presentation and wrap-up.





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