WCAG-Focused Accessible Web Development Training

Duration: **3 Day**

BILGINÇ IT Academy
info@bilginc.com
bilginc.com

Overview

WCAG-Focused Accessible Web Development Training introduces the essential principles and practices for creating websites and digital applications that are more inclusive and accessible to users with different needs and abilities.

Web accessibility goes beyond meeting technical requirements. It helps ensure that digital content and online services can be used by a wider range of people. As legal expectations and awareness of inclusive design continue to grow, accessible web development has become increasingly important from **legal, ethical, and business perspectives**.

The course is built around the **Web Content Accessibility Guidelines (WCAG)** and covers **semantic HTML**, accessible text and media, **keyboard accessibility**, **color contrast**, **ARIA**, and accessibility testing.

Through practical exercises, participants strengthen their understanding of accessible web design and gain foundational skills for evaluating and improving the accessibility of web pages.

Prerequisites

There are **no prerequisites** for attending this training.

Who Should Attend

- **Web Developers**
- **UI/UX Designers**
- **Product Designers**
- **Product Managers**

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What You Will Learn

Upon completing this training, you will be able to:

- Explain **web accessibility** concepts and the fundamental **WCAG principles**.
- Create more accessible web page structures using **semantic HTML**.
- Apply basic **accessibility techniques** to text, images, and video content.
- Develop **forms, buttons, and menus** that support keyboard interaction.
- Evaluate **color contrast** requirements and use **ARIA** appropriately.
- Test web pages using **automated tools and manual testing methods**.
- Assess how **responsive design** contributes to web accessibility.

Outline

1. Introduction to Accessibility and Basic HTML Structures

Understanding Accessibility and Its Importance

- Definition and scope of **web accessibility**
- **Legal, ethical, and economic benefits** of accessible web development
- **Models of disability:** Medical, social, and human rights approaches
- The relationship between disability models and web accessibility

Introduction to WCAG

Understanding the purpose of the **Web Content Accessibility Guidelines (WCAG)** and their four fundamental principles:

- **Perceivable**
- **Operable**
- **Understandable**
- **Robust**

HTML and Semantic Page Structure

- Introduction to **HTML** and its fundamental concepts
- Basic HTML document structure: <html>, <head>, <body>

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- Using **semantic HTML** elements:
  - <header>, <footer>, <nav>, <main>
  - <article>, <section>, <aside>
- **Heading elements:** <h1>–<h6> and proper heading hierarchy
- Paragraph and text formatting elements: <p>, ,

End-of-Module Practical Exercise

Participants create a simple **About Us** or **Contact** page using appropriate **semantic HTML elements** and a logical **heading hierarchy**.

The exercise focuses on building a well-structured page and applying fundamental HTML elements correctly.

2. Text and Media Accessibility

- Improving the **accessibility of text content**
- Accessibility considerations for images
- Making video and other media content accessible to users with different needs

3. Interactive Components and Keyboard Accessibility

- Developing accessible **forms, buttons, and menus**
- Ensuring interactive components support **keyboard navigation**
- Applying accessibility principles to interactive web interfaces

4. Color, Contrast, and ARIA

- Understanding how **color and contrast** affect accessibility
- Meeting **WCAG contrast requirements**
- Introduction to **ARIA (Accessible Rich Internet Applications)**
- Applying ARIA attributes appropriately

5. Accessibility Testing and Advanced Topics

- Testing web pages with **accessibility evaluation tools**
- Understanding the importance of **manual accessibility testing**
- Identifying and evaluating accessibility issues
- Exploring how **responsive design** contributes to accessible user experiences

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