# WCAG-Focused Accessible Web Development Training

Duration: **3 Day**

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## 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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