

Certificate Course on Website Development using HTML & CSS

ABOUT THE COURSE

We spend so much of our time online in these modern times but many people don't know how these websites are built and come to life. This **free** web development course will teach you exactly how to build an actual website using HTML and CSS coding languages. In this HTML tutorial, you will learn about all the key skills you will need to master in order to start building professional websites and these technical skills include HTML5, CSS3, Flexbox, building animations, working with navigations, and integrating images directly into a website. As you go through the course, you will be taken through simple processes employed in building websites as well as other important web development basics including how to build the structure of a website, and the relevance of the cascading style sheet model in the overall website experience. Do you know that web layout is crucial during the development of a website? How Flexbox is used to animate and play web layout is covered in this section of the course as well.

OBJECTIVE

The web development course goes on to describe the various methods used in building components in the navigation bar of a website as well as padding during website development. You will get to know more about design thinking in website development and how it is used for coming up with a user-oriented website. Two of the most important items namely a browser and a text editor are required when building a website and why this is as well as how they work will be discussed in detail. The next part of this course includes a CSS tutorial that includes its vital role in web development, how CSS influences the structure of a website, and an in-depth analysis of CSS principles. This part of the course concludes by teaching you how links are embedded in HTML, how they work together with navigation elements, and the role HTML DIV tags play in organizing HTML elements.

The web development certification continues by taking you through the unique process of creating different forms on a website using HTML. You will take a look at the integration of animations into an HTML form, how to add different styles and features to an HTML animation, and the negative impact of adding items and elements that aren't used has on server storage and website speed. Other website features are covered such as the button element in HTML forms, grid layout, content-grid-wrapper, metadata-sidebar-wrapper, and the invalid property value. Web development as a skill is in high demand and many people around the world have turned their passion for the online world into a career using their coding skills. HTML and CSS are very popular languages and being an expert in them can open a range of job opportunities across many fields and enrolling in this course will allow you to enhance your skills and use it to your advantage in the job market.

Course Module

MODULE 1

Introduction to HTML and CSS

This module explains the introductory aspect of developing a website and the basics of website design. The module also discusses how to build the structure of a website and the cascading style sheet model.

MODULE 2

Cascading Style Sheet

This module explains the implementation of animation in HTML and CSS. The module also lists the different methods using in styling the columns in a navigation bar.

MODULE 3

Website Development using HTML and CSS - First Assessment

In order to pass this assessment, you will need to score 80 percent or above. Remember, if you do not achieve the required standard after the first attempt, you can re-take the assessment until a successful outcome is achieved.

MODULE 4

HTML Header and Footer

This module describes the process used in building the footer structure. You will learn how to build the about us page on a website. You will also learn how CSS is used in creating skewed images.

MODULE 5

HTML Forms and Queries

This module explains the methods used in developing the contact page and integrating animations into the HTML header and footer. The module also explains the media queries and how they allow for responsiveness in HTML.

MODULE 6

Website Development using HTML and CSS - Second Assessment

In order to pass this assessment, you will need to score 80 percent or above. Remember, if you do not achieve the required standard after the first attempt, you can re-take the assessment until a successful outcome is achieved.

MODULE 7

Final Course assessment

Course Outcomes

Describe the Web Application Development Ecosystem: Understand terms like front-end developer, back-end, server-side, and full stack.

Identify Developer Tools and IDEs: Learn about the tools commonly used by web developers.

Create Basic Web Pages with HTML and Style Them Using CSS: You'll gain the skills to structure web pages and apply styling.

Develop Dynamic Web Pages with Interactive Features Using JavaScript: Explore how to make your webpages dynamic, including interactive forms, content modification, and menu systems.

By mastering these fundamentals, you'll be well-equipped to create engaging websites and enhance user experiences!

Model Questions:

- What is HTML and why is it important for web development?
- What is CSS and how does it complement HTML?
- How do HTML and CSS work together to create a webpage?
- What is the basic structure of an HTML document?
- What are HTML tags and attributes? Provide examples.
- How do you create a hyperlink in HTML?
- What are the different types of lists in HTML and how do you create them?
- How do you insert images into an HTML document?
- How do you create a table in HTML?
- What are semantic HTML elements and why are they important?
- How do you create forms in HTML and what are the common form elements?

- What is the syntax of a CSS rule?
- How do you apply CSS to an HTML document (inline, internal, and external)?
- What are selectors in CSS and how do they work?
- How do you change the color of text and background using CSS?
- What is the Box Model in CSS?
- How do you use CSS to create a simple layout with a header, main content area, and footer?
- What are the differences between block-level and inline-level elements?
- How do you use the float property in CSS?
- What is Flexbox and how do you use it to create flexible layouts?
- How do you use CSS Grid to create complex layouts?
- What are CSS pseudo-classes and pseudo-elements? Provide examples.
- How do you create animations and transitions using CSS?
- How do you use media queries for responsive web design?
- Create a simple personal webpage with a biography and contact information.
- Design a product page with a list of items, prices, and descriptions using HTML and CSS.
- Develop a basic navigation menu using HTML and CSS.
- Create a responsive webpage that adjusts its layout based on the screen size.
- What are some common HTML and CSS validation tools?
- How do you debug CSS issues in a webpage?
- What are some best practices for writing clean and maintainable HTML and CSS code?
- How do you optimize a webpage for faster loading times?

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