

COURSE OUTLINE

55320 - Programming with HTML, CSS, and JavaScript

Duration: 5 Days

Course Description:

In this fast-paced course, you'll learn the fundamentals of client-side web development, starting with the basics of HTML for structuring content. We will cover various HTML elements, attributes, and techniques for building a well-structured web page. Next, you'll dive into CSS to learn about styling your web pages with various properties and selectors, making your content visually appealing. Finally, we will explore JavaScript, a powerful programming language that allows you to add interactivity and dynamic content to your websites. Throughout the course, you'll have the opportunity to work on practical exercises and hands-on examples, solidifying your knowledge and preparing you for real-world web development projects.

Course Outlines:

1. A Quick Overview of Web Development

- HTML is Part of a Team
- Client-side Programming
- Server-side Programming

2. Introduction to HTML

- A Simple HTML Document (Exercise)
- HTML Elements, Attributes, and Comments
- The HTML Skeleton
- Viewing the Page Source
- Special Characters
- History of HTML
- The lang Attribute

3. Paragraphs, Headings, and Text

- Paragraphs
- Heading Levels
- Breaks and Horizontal Rules
- The div Tag
- Creating an HTML Page (Exercise)
- Quoted Text
- Preformatted Text
- Inline Semantic Elements
- Adding Inline Elements (Exercise)

4. HTML Links

- Text Links
- Absolute vs. Relative Paths
- Targeting New Tabs
- Email Links
- Adding Links (Exercise)
- Lorem Ipsum
- The title Attribute
- Targeting a Specific Location on the Page

5. HTML Images

- Inserting Images
- Image Links
- Adding Images to the Page (Exercise)
- Providing Alternative Images

6. HTML Lists

- Unordered Lists
- Ordered Lists
- Definition Lists
- Creating Lists (Exercise)

7. Sectioning a Web Page

- Semantic Block-Level Elements
- Articles vs. Sections
- Sectioning the Home Page
- Sectioning Content and Styling
- Sectioning the Pages (Exercise)

8. Crash Course in CSS

- Benefits of Cascading Style Sheets
- CSS Rules
- Selectors
- Combinators
- Precedence of Selectors
- How Browsers Style Pages
- CSS Resets
- CSS Normalizers
- External Stylesheets, Embedded Stylesheets, and Inline Styles
- Creating an External Stylesheet (Exercise)
- Creating an Embedded Stylesheet (Exercise)
- Adding Inline Styles (Exercise)
- div and span
- Styling div and span (Exercise)
- Media Types
- Units of Measurement
- Inheritance

9. CSS Fonts

- font-family
- @font-face
- font-size
- font-style
- font-variant
- font-weight
- line-height
- font
- Styling Fonts (Exercise)

10. Color and Opacity

- About Color and Opacity
- Color and Opacity Values
- color
- opacity
- Adding Color and Opacity to Text (Exercise)

11. CSS Text

- letter-spacing
- text-align
- text-decoration
- text-indent
- text-shadow
- text-transform

REGISTER NOW!

training@trends.com.ph
 (+632) 8863-2123
 www.trendssacademy.com.ph

COURSE OUTLINE

- white-space
- word-break
- word-spacing
- Text Properties (Exercise)

12. JavaScript Basics

- JavaScript vs. EcmaScript
- The HTML DOM
- JavaScript Syntax
- Accessing Elements
- Where Is JavaScript Code Written?
- JavaScript Objects, Methods, and Properties
- Alerts, Writing, and Changing Background Color (Exercise)

13. Variables, Arrays, and Operators

- JavaScript Variables
- A Loosely Typed Language
- Google Chrome DevTools
- Storing User-Entered Data
- Using Variables (Exercise)
- Constants
- Arrays
- Working with Arrays (Exercise)
- Associative Arrays
- Playing with Array Methods
- JavaScript Operators
- The Modulus Operator
- Playing with Operators
- The Default Operator
- Working with Operators (Exercise)

14. JavaScript Functions

- Global Objects and Functions
- Working with Global Functions (Exercise)
- User-defined Functions
- Writing a JavaScript Function (Exercise)
- Returning Values from Functions

15. Built-In JavaScript Objects

- Strings
- Math
- Date
- Helper Functions
- Returning the Day of the Week as a String (Exercise)

16. Conditionals and Loops

- Conditionals
- Short-circuiting
- Switch / Case
- Ternary Operator
- Truthy and Falsy
- Conditional Processing (Exercise)
- Loops
- while and do...while Loops
- for Loops
- break and continue
- Working with Loops (Exercise)
- Array: forEach()

17. Event Handlers and Listeners

- On-event Handlers
- Using On-event Handlers (Exercise)
- The addEventListener() Method

- D. Anonymous Functions
- E. Capturing Key Events
- F. Adding Event Listeners (Exercise)
- G. Benefits of Event Listeners
- H. Timers
- Typing Test (Exercise)

18. The HTML Document Object Model

- CSS Selectors
- The innerHTML Property
- Nodes, NodeLists, and HTMLCollections
- Accessing Element Nodes
- Accessing Elements (Exercise)
- Dot Notation and Square Bracket Notation
- Accessing Elements Hierarchically
- Working with Hierarchical Elements (Exercise)
- Accessing Attributes
- Creating New Nodes
- Focusing on a Field
- Shopping List Application
- Logging (Exercise)
- Adding EventListeners (Exercise)
- Adding Items to the List (Exercise)
- Dynamically Adding Remove Buttons to the List Items (Exercise)
- Removing List Items (Exercise)
- Preventing Duplicates and Zero-length Product Names (Exercise)
- Manipulating Tables

19. HTML Forms

- How HTML Forms Work
- The form Element
- Form Elements
- Buttons
- Creating a Registration Form (Exercise)
- Checkboxes
- Radio Buttons
- Adding Checkboxes and Radio Buttons (Exercise)
- Fieldsets
- Select Menus
- Textareas
- Adding a Select Menu and a Textarea (Exercise)
- HTML Forms and CSS

20. JavaScript Form Validation

- Server-side Form Validation
- HTML Form Validation
- Accessing Form Data
- Form Validation with JavaScript
- Checking the Validity of the Email and URL Fields (Exercise)
- Checking Validity on Input and Submit Events
- Adding Error Messages
- Validating Textareas
- Validating Checkboxes
- Validating Radio Buttons
- Validating Select Menus
- Validating the Ice Cream Order Form (Exercise)
- Giving the User a Chance

21. Regular Expressions

- Getting Started
- Regular Expression Syntax
- Backreferences
- Form Validation with Regular Expressions
- Cleaning Up Form Entries
- Cleaning Up Form Entries (Exercise)
- A Slightly More Complex Example

REGISTER NOW!

training@trends.com.ph
 (+632) 8863-2123
 www.trendssacademy.com.ph