55320 Programming with HTML, CSS, and JavaScript

Category: Software Development & Programming | **Vendor:** Logical Operations

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course is intended for IT professionals interested in becoming client-side web developers. who need to get a jump start on all three technologies. The course includes more than 30 exercises, providing a rapid hands-on introduction to the three major client-side languages: HTML, CSS, and JavaScript. Students should be prepared to cover a lot of ground quickly.This material updates and replaces course Microsoft course 20480 which was previously published under the title Programming in HTML5 with JavaScript and CSS3.

About This Course

This course is intended for IT professionals interested in becoming client-side web developers. who need to get a jump start on all three technologies. The course includes more than 30 exercises, providing a rapid hands-on introduction to the three major client-side languages: HTML, CSS, and JavaScript. Students should be prepared to cover a lot of ground quickly.This material updates and replaces course Microsoft course 20480 which was previously published under the title Programming in HTML5 with JavaScript and CSS3.

Who Should Attend

This course is intended for students new to computer programming or experienced programmers who are new to client-side web development.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After completing this course, you will be able to:

Describe the technologies involved in web development.

Create HTML pages with links and images.

Explain the benefits of CSS.

Style HTML pages with CSS.

Explain the concepts of objects, methods, and properties.

Work with JavaScript variables.

Create their own custom functions in JavaScript.

Write flow control logic in JavaScript.

Write JavaScript code that listens for and handles events, such as mouse clicks and page loads.

Create forms with HTML and validate them with JavaScript.

Use regular expressions in JavaScript for advanced form validation.

Detailed Course Outline

Module 1: A Quick Overview of Web Development

- HTML is Part of a Team
- Client-side Programming
- Server-side Programming
- Web Development Technologies

Module 2: Introduction to HTML

- Exercise: A Simple HTML Document
- Getting Started with a Simple HTML Document
- HTML Elements, Attributes, and Comments
- The HTML Skeleton
- Viewing the Page Source
- Special Characters
- HTML Elements and Special Characters
- History of HTML
- The lang Attribute

Module 3: Paragraphs, Headings, and Text

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

Module 4: HTML Links

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

Module 5: HTML Images

- Inserting Images
- Image Links
- Adding Images to the Document
- Exercise: Adding Images to the Page
- Providing Alternative Images

Module 6: HTML Lists

- Unordered Lists
- Ordered Lists
- Definition Lists
- Exercise: Creating Lists

Module 7: 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
- Exercise: Creating an External Stylesheet
- Exercise: Creating an Embedded Stylesheet
- Exercise: Adding Inline Styles
- div and span
- Exercise: Styling div and span
- Media Types
- Units of Measurement
- Inheritance

Module 8: CSS Fonts

- font-family
- @font-face
- font-size
- font-style
- font-variant
- font-weight
- line-height
- font shorthand
- Exercise: Styling Fonts

Module 9: Color and Opacity

- About Color and Opacity
- Color and Opacity Values
- Color
- Opacity
- Exercise: Adding Color and Opacity to Text

Module 10: CSS Text

- letter-spacing
- text-align
- text-decoration
- text-indent
- text-shadow
- text-transform
- white-space
- word-break
- word-spacing
- Exercise: Text Properties

Module 11: JavaScript Basics

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

Module 12: Variables, Arrays, and Operators

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

Module 13: JavaScript Functions

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

Module 14: Built-In JavaScript Objects

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

Module 15: Conditionals and Loops

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

Module 16: Event Handlers and Listeners

- On-event Handlers
- Exercise: Using On-event Handlers
- The addEventListener() Method
- Anonymous Functions
- Capturing Key Events
- Exercise: Adding Event Listeners
- Benefits of Event Listeners
- Timers
- Typing Test

Module 17: The HTML Document Object Model

- CSS Selectors
- The innerHTML Property
- Nodes, NodeLists, and HTMLCollections
- Accessing Element Nodes
- Exercise: Accessing Elements
- Dot Notation and Square Bracket Notation
- Accessing Elements Hierarchically
- Exercise: Working with Hierarchical Elements
- Accessing Attributes
- Creating New Nodes
- Focusing on a Field
- Shopping List Application
- Exercise: 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
- Manipulating Tables

Module 18: HTML Forms

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

Module 19: JavaScript Form Validation

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

Module 20: Regular Expressions

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

Additional Course Details

Nexus Humans 55320 Programming with HTML, CSS, and JavaScript training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the 55320 Programming with HTML, CSS, and JavaScript course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for 55320 Programming with HTML, CSS, and JavaScript?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day 55320 Programming with HTML, CSS, and JavaScript course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the 55320 Programming with HTML, CSS, and JavaScript training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for 55320 Programming with HTML, CSS, and JavaScript?

Yes, we provide corporate training, dedicated training, and closed classes for 55320 Programming with HTML, CSS, and JavaScript. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for 55320 Programming with HTML, CSS, and JavaScript?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your 55320 Programming with HTML, CSS, and JavaScript training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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