

## Front-end Web Developer

Duration: 5 Days    Course Code: FWD    Delivery Method: Company Event

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### Overview:

**English - Please note this course is only available in English.**

**Nederlands - Let op: deze training is alleen in het Engels beschikbaar.**

**Français - Veuillez noter que ce cours est uniquement disponible en anglais. Front-end Web Developer Course**

### Overview

HTML, CSS, and JavaScript are the core languages of front-end web development. This course is designed to provide delegates with the knowledge

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

Who will the Course Benefit?

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### Objectives:

■ Course Objectives

■ This course aims to provide delegates with the skills and knowledge necessary to construct and style responsive HTML pages using the latest techniques. Delegates should also be able to make their web pages dynamic and interactive exploiting core JavaScript code and an understanding of the DOM and event handling.

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### Prerequisites:

■ Delegates should have some previous programming experience or at least be familiar with programming concepts. This knowledge can be gained by attendance on the pre-requisite Introduction to Programming - JavaScript course.

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### Follow-on-Courses:

Further Learning

■ Intermediate JavaScript

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## Content:

### Front-end Web Developer Training Course Course Contents - DAY 1

#### Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

#### Session 1: INTRODUCTION TO HTML ; CSS

- Setting up the development environment
- How the web works
- HTML
- Elements, tags, and attributes
- HTML document structure
- An introduction to mobile-first development
- Special characters
- Comments
- CSS
- Rules, selectors, and properties
- Linking HTML and CSS
- Chrome's Developer Tools
- Publishing

#### Session 2: TEXT ELEMENTS

- Headings and paragraphs
- Other text elements
- Styling text elements
- CSS values and units
- Web fonts
- Unordered and ordered lists
- Styling lists

#### Session 3: HYPERLINKS

- Hyperlinks
- URLs and paths
- Document fragments
- Email links
- Styling links

#### Session 4: MORE CSS SELECTORS

- Selectors (again)
- Selector lists
- Type, class, and ID selectors
- Attribute selectors
- Pseudo-classes and pseudo-elements
- Combinators
- The cascade, specificity and inheritance
- At-rules Front-end Web Developer Training Course Course Contents - DAY 2

#### Session 5: STRUCTURING CONTENT

- Block and inline elements
- The box model
- Styling boxes
- Semantic elements
- Line breaks and horizontal rules

#### Session 7: TABLES

- Table rows and cells
- Headers
- Spanning
- Column groups
- Captions
- Semantic table tags
- Styling tables

#### Session 8: FORMS

- The purpose of forms
- Forms
- Labels and text boxes
- Buttons
- Styling forms
- Sending form data to the server
- Grouping form fields
- Input types and attributes
- Drop down boxes
- Progress bars Front-end Web Developer Training Course Course Contents - DAY 3

#### Session 9: MORE LAYOUT

- Normal flow
- Floats
- Positioning
- Flexbox
- Multi-column layout
- Grid
- Responsive design
- Media queries
- Feature queries
- Responsive media
- Intrinsic layout patterns

#### Session 10: MORE CSS PROPERTIES

- Rounded corners
- Multiple backgrounds
- Gradients
- Shadows
- Text effects
- Transforms
- Transitions
- Animations
- And more...

#### Session 11: CSS FRAMEWORKS AND PREPROCESSORS

- CSS frameworks
- The pros and cons of CSS frameworks
- Popular CSS frameworks
- CSS preprocessors
- CSS preprocessor features
- Popular CSS preprocessors
- CSS's var function

#### Session 12: INTRODUCTION TO UI/UX

#### Session 15: FUNCTIONS

- Function declarations
- Parameters
- Return statements
- Function expressions
- Arrow functions
- Declaration, expression, or arrow function?
- Calling functions
- Pass by value or reference?
- An introduction to scope
- Default parameters
- Built-in functions

#### Session 16: PROGRAM FLOW

- Relational and logical operators
- Equality comparisons and sameness
- Truthy and falsey
- Conditional statements
- Iterative statements
- Error handling
- Debugging Front-end Web Developer Training Course Course Contents - DAY 5

#### Session 17: OBJECTS

- Objects (again)
- Properties
- Dot notation
- Square bracket notation
- Function properties (methods)
- The this keyword
- Iterating over object properties
- The Object type
- Array objects and methods
- String objects and methods

#### Session 18: DOM REFERENCING AND MANIPULATION

- HTML elements and JavaScript objects
- The DOM
- DOM referencing
- DOM data types
- Element manipulation
- Creating, adding and removing elements

#### Session 19: EVENT HANDLING

- Events
- Event propagation
- Event listeners
- Event listener registration
- The event object

#### Session 20: WEB APIS

- What is an API?
- Browser APIs
- Accessing browser APIs
- Date

- An introduction to layout using CSS Grid

#### Session 6: MULTIMEDIA AND EMBEDDING

- Images
- Image formats
- Figures and captions
- Styling images
- Background images
- Video and audio
- Media container formats
- Video text tracks
- Embedding content with iframe, embed, and object (briefly)
- SVG
- Icons

#### DESIGN, SEO, ; PERFORMANCE OPTIMISATION

- UI/UX design
  - UI/UX design guidelines and best practices
  - Search Engine Optimisation (SEO)
  - HTML tags that are important for SEO
  - SEO best practices
  - Website performance optimisation
- Front-end Web Developer Training Course Course Contents - DAY 4

#### Session 13: INTRODUCTION TO JAVASCRIPT

- Setting up the development environment
- What is JavaScript?
- HTML and CSS - a brief refresher
- Embedding JavaScript in HTML
- Executing JavaScript with NodeJS
- Browser JS vs. NodeJS
- A simple example
- Syntax and comments
- ECMAScript and JavaScript
- Deployment

#### Session 14: VALUES, VARIABLES AND TYPES

- Values
- Variables
- var, let, and const
- Naming conventions
- Numbers
- Strings
- Booleans
- Arrays
- Objects
- The typeof operator
- Dynamic typing
- Type conversion and coercion
- Arithmetic
- Handling text incl. template literals

- Math
- RegExp
- JSON
- Client-side storage
- Geolocation
- Others

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#### Further Information:

For More information, or to book your course, please call us on 0800/84.009

[info@globalknowledge.be](mailto:info@globalknowledge.be)

[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)