KOENIG
step forward

Microsoft Solutions Partner
Microsoft Cloud Training Services

KOENIG SOLUTIONS · COURSE OUTLINE

# 55319AC: HTML5 and CSS

Learn to build, style and structure web pages with HTML5 and CSS, from core tags and layout to forms and multimedia.

| 10 | 67 | 37 |
|---|---|---|
| MODULES | TOPICS | HANDS-ON ACTIVITIES |

## COURSE OVERVIEW

This course covers the fundamentals of HTML and CSS, starting with the history of the web and core HTML elements before moving into cascading style sheets, fonts, colours and backgrounds. It then explores anchors and hyperlinks, page layout techniques, and working with images. The course concludes with building HTML forms and adding multimedia such as video and audio to web pages.

## WHO THIS COURSE IS FOR

**Web Developers** | **Front-End Developers** | **Web Designers**

## LEARNING OBJECTIVES

- Explain the history and structure of HTML and the web
- Apply core HTML tags, attributes and comments to build pages
- Configure cascading style sheets using selectors and the CSS Box Model
- Apply CSS to style fonts, text and lists
- Apply colours, gradients and backgrounds to HTML elements
- Build hyperlinked documents using anchors and buttons
- Arrange page content using DIVs, tables, float and IFRAMES
- Build and validate HTML forms with various form elements

COURSE SYLLABUS

# 10 Modules, 67 Topics

01

4 Activities

## A Brief History of HTML and the Web

*This module introduces HTML and CSS and the tools used to create web pages. It also covers many of those annoying little issues that you need to know about before creating modern web pages*

TOPICS

- Welcome!
- History
- Details, Details, Details…
- The Life of a Web Page
- HTTP Status Codes Definitions
- Most Important Things to Know as a Web Developer

02

5 Activities

## Core HTML Elements

*This module covers the use of HTML editors, page creation, core HTML tags and HTML validation.*

TOPICS

- HTML and CSS Editors
- Text, Spaces and Tabs
- Working with Tags
- Attributes
- Comments
- Non-Standard Tags
- Every Page Includes…
- File Extensions
- Core Page Elements
- Nesting
- Testing HTML
- HTML and Text

03

6 Activities

## Cascading Style Sheets

*Although CSS is covered throughout this course and is introduced and used with related HTML tags, this module explores the core CSS features including selectors, CSS units and the CSS Box Model.*

TOPICS

Before CSS · With CSS · Cascading Style Sheets (CSS) · Adding CSS to a Page · Order of CSS Processing · Experimental Vendor Prefixes · CSS Units · The CSS Box Model

04

3 Activities

## Fonts and Text

*This module explores the use of fonts and lists.*

**TOPICS**

Fonts · CSS for Text · CSS Text Ticks! · Working with Lists · Upgrading and to Windows 7

05

3 Activities

## Colors and Backgrounds

*In this module we will explore how colors are used and applied in HTML and CSS to HTML tags, fonts and backgrounds.*

**TOPICS**

Specifying Colors · Applying Colors · Gradients

06

4 Activities

## Anchors and Hyperlinks

*The "H" of HTML refers the ability to link from one document to another. In this module we will work with the anchor tag and buttons to build hyperlinked documents.*

**TOPICS**

and CSS · Hyperlinks with Images and Other Objects · Buttons

07

4 Activities

## Page Layout

*In this module we will look at HTML's options to control where and how content is arranged on a page. We will look at both the HTML tags and what can be done using CSS.*

**TOPICS**

Page Layout Options · Tables for Data · DIVs · Float · SPAN · HTML 5 DIV-like Tags · IFRAMES

08

3 Activities

## Images

*This module explores working with image in HTML pages. We will explore file types, file sizes, compression, background images, CSS sprites and best practices.*

**TOPICS**

Favicon · Preparing Images · Image Files · The IMG Tag · Background Images · Image Best Practices · CSS Sprites

09

2 Activities

## HTML Forms

*In this module we will be exploring the HTML tags to create, style and validate web forms.*

TOPICS

- A Basic Form
- POST vs. GET
- name vs. id
- Basic Form Elements
- Basic Form Attribute
- Select
- Uploading Files
- HTML 5 Form Enhancements
- DataList

10

3 Activities

## Multimedia

*This module explores the addition of video and audio to web pages.*

TOPICS

Video and Audio · HTML 5 Video · CSS · JavaScript · Audio · Hosting Videos in the Cloud · Working with Animated GIFs

HANDS-ON ACTIVITIES

# Practise What You Learn

| # | MODULE | ACTIVITY |
|---|---|---|
| 01 | **A Brief History of HTML and the Web** | ■ Getting Started with HTML<br>■ Exercise 1 – Create a web page<br>■ Exercise 2 – Explore Visual Studio Options<br>■ Exercise 3 – Experimenting with tags |
| 02 | **Core HTML Elements** | ■ Core HTML Elements<br>■ Exercise 1 – Creating and Validating a Page<br>■ Exercise 2 – Browser tools<br>■ Exercise 3 – Add a Copyright Message<br>■ Exercise 4 – Create a Style Sheet |
| 03 | **Cascading Style Sheets** | ■ Cascading Style Sheets<br>■ Exercise 1 – Creating and Validating a Page<br>■ Exercise 2 – CSS Box Model – Customize the Header<br>■ Exercise 3 – CSS Box Model – Adding Navigation Tabs<br>■ Exercise 4 – Working with a Pseudo Class<br>■ Exercise 5 – Validate Your Code |

| # | MODULE | ACTIVITY |
|---|---|---|
| 04 | **Fonts and Text** | ■ Fonts and Text<br>■ Exercise 1 – Selecting Fonts<br>■ Exercise 2 – Validate Your Code |
| 05 | **Colors and Backgrounds** | ■ Colors and Backgrounds<br>■ Exercise 1 – Working with Color<br>■ Exercise 2 - Gradients |
| 06 | **Anchors and Hyperlinks** | ■ Anchors and Hyperlinks<br>■ Exercise 1 – Add links to other pages<br>■ Exercise 2 – External Links<br>■ Exercise 3 – Image Links |
| 07 | **Page Layout** | ■ Page Layouts<br>■ Exercise 1 – Float Images<br>■ Exercise 2 – Float DIVs<br>■ Exercise 3 – Exploring the Power of CSS Style Sheets |
| 08 | **Images** | ■ Images<br>■ Exercise 1 – Add a Background to a Page<br>■ Exercise 2 – Add a Background Image to a DIV |
| 09 | **HTML Forms** | ■ HTML Forms<br>■ Exercise 1 – Build a Simple Form |
| 10 | **Multimedia** | ■ Adding Videos to a Page<br>■ Exercise 1 – Add a Video to a Page<br>■ Exercise 2 – Add a YouTube Video to a Page (optional) |

WHAT IS INCLUDED

## Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

## Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

## Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

### Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com