

Webmaster - Responsive Web Design - Level 4 Online Course

Key Information

Course Format:
Online Course

Price:
£225.00

Assessment:
Assignments

Payment Options:
Spread the cost over 4 monthly payments

Approximate Study Time:
140 Hours of Self Study

Initial Payment of
£90.00

Approximate Delivery Time:
1-2 Working Days via Email

Followed by 3 payments of:
£45.00



The **Webmaster – Responsive Web Design Course** is aimed at students with a pre-existing knowledge of HTML and CSS and will show how responsive web design (RWD) can be used to build stunning responsive websites which allow an optimal viewing and interaction experience using the very latest HTML5 and CSS technology. The course is an ideal follow-on programme to our Webmaster – HTML and CSS Course or for those students who already have a good working knowledge of these programming languages.

The growing number of users who access the Internet via smartphones and tablet computers means that modern web designers must build pages that are responsive to the screen size, automatically adjusting the content to suit the user's device. Responsive web design is a methodology which aims at providing an optimal viewing experience – easy reading and navigation with a minimum of resizing, panning, and scrolling – across a wide range of devices, from computer monitors, through laptops and tablets, to smartphones. A responsive website automatically adapts the layout to the viewing environment by using fluid, proportion-based grids, flexible images, and CSS3 media queries, as illustrated below.



As well as learning important responsive web design techniques, you will also be introduced to all of the important new HTML5 elements and, via the magic of CSS3, you will apply a range of special effects, including transitions, transformations, and animations. The course will show how the new HTML5 API's will allow you to incorporate great features into your website such as brilliant drag & drop and geo-location map facilities, as well as the versatile canvas API which allows you to create two and three-dimensional graphics on the fly, right there on your web pages.

On successful completion of the course, students will receive the Distance Learning Centre Webmaster – Responsive Web Design Diploma with comprehensive feedback and analysis of your completed work, as well as an Open Awards Quality Endorsed Unit Course Certificate.

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The course consists of the following lessons:

- **Lesson 1 – Introduction**

The following topics are covered: Before We Get Started; Getting Started with HTML5 & CSS3; What's New In HTML5?; Creating An HTML5 Document; HTML5 Document Validation; Incorporating A CSS3 Style Sheet; What's New In CSS3? CSS3 Document Validation; Lesson Review & Quiz; and Assignment 1 – Build Your HTML5/CSS3 Home Page.

- **Lesson 2 – Responsive Web Design**

The following topics are covered: What Is Responsive Web Design?; Responsive Web Design With CSS3; Proportional Layouts; Scaling Images; Converting From Fixed To Fluid Design; Cross-Browser Considerations; Examples Of Responsive Web Design; Lesson Review & Quiz; and Assignment 2 – Update Home Page To Be Fully Responsive.

- **Lesson 3 – HTML5 Semantic Elements**

The following topics are covered: Introduction; The Header, Footer & Nav Elements; The Section, Article, & Aside Elements; Other Semantic Elements; The Role Of DIV And SPAN Elements; Dropped Elements & Attributes; Lesson Review & Quiz; and Assignment 3 – Build Your Own "About Us" Page.

- **Lesson 4 – Introduction to CSS3**

The following topics are covered: Background To CSS3; Understanding Cascading Style Sheets; Internal, Inline, & External Style Sheets; CSS3 Rules & Selectors; New CSS3 Colour Formats; Text Effects & Transformations; Multi-Column Layout; Lesson Review & Quiz; and Assignment 4 – Build Your Own Products Page.

- **Lesson 5: Styling Content & Layout with CSS3**

The following topics are covered: Recognising Content Boxes; Setting Margins & Padding; Sizing & Positioning Elements; Formatting Borders; Specifying Backgrounds; Text Formatting; Using Shadows & Gradients; Lesson Review & Quiz; Assignment 5 – Build Your Own Information Page.

- **Lesson 6 – Styling Lists & Tables with CSS3**

The following topics are covered: Introduction; List Style Types & Positioning; Defining Shorthand Lists; New HTML5 Table Elements; Assigning Elements as Table Components; Lesson Review & Quiz; and Assignment 6 – Build Your Own Store Front.

- **Lesson 7 – Stylish HTML5 Forms**

The following topics are covered: HTML5 Form Components; Acquiring Text Input; Email, Telephone, & URL Inputs; Check Boxes & Radio Buttons; Selecting Options & Uploading Files; Standard Buttons & Image Buttons; Date, Time, & Range Inputs; Add Some Style With CSS3; Lesson Review & Quiz; and Assignment 7 – Build Your Own Contact Page.

- **Lesson 8 – Using CSS3 to Create Special Effects**

The following topics are covered: Understanding CSS3 Transitions; CSS3 Transformations; CSS3 Animations; Enhancing Your Text; Using Special Cursors; Hiding & Revealing Elements; Lesson Review & Quiz; and Assignment 8 – Add Some Effects to Your HTML5 Pages.

- **Lesson 9 – Optimising & Organising your CSS3 Code**

The following topics are covered: Resetting Browser Defaults; Organising Your Style Sheets; Optimising Style Rules; Specifying Default Styles; Lesson Review & Quiz; and Assignment 9 – Optimise & Organise Your CSS3 Style Sheets.

- **Lesson 10 – The Powerful HTML5 API's**

The following topics are covered: Introduction; The Drag & Drop API; The Web Storage API; Inter-Document Messaging; The History API; The Geolocation & Google Maps API; The Canvas API; Incorporating Audio & Video; Lesson Review & Quiz; and Assignment 10 – Shape Drawing Exercise.

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Prerequisites:

Students require a good knowledge of HTML Programming. This course assumes you have completed the Webmaster – HTML & CSS Course or have studied HTML to an equivalent level.

We recommend this course is completed on a PC with the Windows Operating System or on an Apple Mac. As this is an online course it can be accessed on any Internet Ready computer.

Course Duration & Support:

Students may register at any time and have a full year to complete their studies. You also have access to a personal tutor by mail or email for a 12 month period. Course extensions can be purchased if you do not complete this course within the 12 month period. As the course is self-study you can complete in as little or as long a time as you prefer.

Assessment:

You will be assessed on coursework which is detailed in the course materials. The coursework requires you to create and submit webpages as your assignments. Your work can be sent back to your course tutor by email or by post.

Certification:

On successful completion of this course students will receive our Webmaster – Responsive Web Design Diploma with comprehensive feedback and providing the assignments have been completed to the required standards students will also receive a Level 4 Open Awards Quality Endorsed Unit Course Certificate with 9 Open Awards Credits.



Open Award Credits can be accumulated with other course or unit credits over a period of time which can lead to an accredited qualification. The course measurable learning outcomes have been benchmarked at Level 4 (using Ofqual's Qualification and Credit Framework (QCF) level descriptors) to allow you to consider the depth of study, difficulty, and level of achievement involved.

You can find further information on qualifications/certificates and their levels on the Ofqual Qualification & Credit Framework level descriptors page. The certification is issued through Open Awards. Open Awards are an Awarding Body Organisation approved by Ofqual. Set up in 1981, Open Awards (Previously the North West Region of the National Open College Network - OCNNW) have been in business for over 30 years and are a not for profit organisation and a registered charity.