

# Mobile & Responsive Web Design

Course: **00007**

Filter: **Beginner**

Duration: **3 days**

Category:: **Mobile App Developpement**

Price: **2500,00 €**

## About Course

Gain the necessary skills for responsive and mobile website design that fully harness sophisticated capabilities of web browsers on mobile devices. In this training course, you learn how to define the elements of Responsive Wed Design (RWD), implement mobile frameworks, enhance site functionality, and design an optimal experience for mobile interaction.

## What you'll learn

- Design and build mobile-first and responsive websites targeted for mobile devices
- Write compelling HTML5, CSS, and JavaScript content for mobile users
- Build cross-platform mobile applications
- Efficiently deliver content over low-bandwidth links
- Enhance the mobile experience with device features and geolocat

## Pre-requisites

- Knowledge of HTML at the level of developing a website
- Knowledge of how to develop a website
- CSS experience
- JavaScript experien

## Curriculum

## **Module 1: Exploring Web Development in the Mobile World**

- Reviewing the architectural tiers of web applications
- Complying with W3C guidelines and best practices
- Examining key mobile web platforms
- Targeting devices with feature detection
- Configuring development and debugging environments
- Investigating mobile design goals
- Delivering user-context appropriate content
- Prioritizing features with user requirements
- Designing for the mobile interface
- Implementation strategies for new and existing content

## **Module 2: Defining Elements of Responsive Web Design (RWD)**

- Establishing flexible typesetting and forming flexible grids
- Incorporating fluid margins and padding
- Building flexible images and media
- Managing complex images
- Applying and establishing media types and media queries
- Evaluating the viewport concept
- Measuring the viewport
- Optimizing site layout with media queries

## **Module 3: Employing jQuery Mobile for Forms and Events**

- Exploring jQuery mobile fundamentals
- Creating jQuery mobile templates and applying themes
- Enhancing jQuery mobile with AJAX navigation
- Exploiting native functionality with jQuery mobile
- Examining form element types for mobile
- Optimizing touch interaction with forms
- Generating advanced forms with HTML5 and jQuery mobile
- Interactive modes and events
- Handling events in the mobile environment

- Developing jQuery mobile event handling

#### **Module 4: Implementing Mobile Frameworks**

- Creating cross-platform hybrid mobile apps
- Accessing native device capabilities from JavaScript
- Leveraging native device API with PhoneGap
- Contacts
- Map
- Phone
- Building hybrid applications with PhoneGap
- Querying for the device location with GPS
- Integrating with the native map application
- Persisting data onto the device
- Managing locally stored data
- Enabling disconnected web applications
- Synchronizing offline data to enterprise databases

#### **Module 5: Considering Performance and Optimization**

- Discussing website performance and optimization
- Reviewing best practices and good design
- Optimizing applications with YSlow
- Analyzing YSlow rules and rulesets
- Implementing best practice rules to optimize mobile applications
- Compressing and optimizing CSS and JavaScript