MOBILE & RESPONSIVE WEB DESIGN

Course number : 106

Overview

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

Who should attend

Pre-requis

- Knowledge of HTML at the level of:
    - Course 470, Developing a Website
- Knowledge of how to develop a website
- CSS experience
- JavaScript experien

Outline

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

Analyzing Requirements for Mobile Website Design

Prioritizing mobile design requirements

- Investigating mobile design goals
- Delivering user-context appropriate content

Applying architectural principles and constraints

- Prioritizing features with user requirements
- Designing for the mobile interface
- Implementation strategies for new and existing content

Defining Elements of Responsive Web Design (RWD)

Creating proportion with CSS

- Establishing flexible typesetting and forming flexible grids
- Incorporating fluid margins and padding

Developing responsive images

- Building flexible images and media
- Managing complex images
- Applying and establishing media types and media queries

Managing the viewport

- Evaluating the viewport concept
- Measuring the viewport
- Optimizing site layout with media queries

Employing jQuery Mobile for Forms and Events

Integrating the popular jQuery mobile library

- Exploring jQuery mobile fundamentals
- Creating jQuery mobile templates and applying themes
- Enhancing jQuery mobile with AJAX navigation
- Exploiting native functionality with jQuery mobile

Exploring HTML5 form elements

- Examining form element types for mobile

- Optimizing touch interaction with forms
- Generating advanced forms with HTML5 and jQuery mobile

Handling browser and mobile events

- Interactive modes and events
- Handling events in the mobile environment
- Developing jQuery mobile event handling

Implementing Mobile Frameworks

Presenting PhoneGap concepts

- Creating cross-platform hybrid mobile apps
- Accessing native device capabilities from JavaScript

Viewing device information with PhoneGap

- Leveraging native device API with PhoneGap
- Contacts
- Map
- Phone
- Building hybrid applications with PhoneGap

Leveraging geolocation

- Querying for the device location with GPS
- Integrating with the native map application

Managing local storage

- Persisting data onto the device
- Managing locally stored data

Working offline

- Enabling disconnected web applications
- Synchronizing offline data to enterprise databases

Considering Performance and Optimization

Enhancing site functionality

- Discussing website performance and optimization
- Reviewing best practices and good design

Employing performance tools

- Optimizing applications with YSlow
- Analyzing YSlow rules and rulesets
- Implementing best practice rules to optimize mobile applications
- Compressing and optimizing CSS and JavaScript

Schedule

Location	Dates	Status
Paris	Feb 01, 2018 - Feb 28, 2018 08:00 AM - 05:00 PM	Not available [Register Now >>](#)

Tuition

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