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Learning Style: On Demand

Technology: Microsoft

Difficulty: Intermediate

Course Duration: 12 Hours

## Advanced CSS Concepts



### About this Course:

This is an intermediate-level computer science course designed for Front-End and Web Developers. This course provides a comprehensive overview of designing, developing, and evaluating device-friendly webpages and websites with CSS. This course helps professionals build familiarity with the core features and functionalities of CSS and learn the art of using Flexbox, Linting, SVG Images, and other common web development tools and technologies. The primary objective of this course is to help professionals learn the art of enhancing the performance of the webpages.

### Course Objectives:

The core objective of this course is to help professionals gain a better understanding and sound knowledge of the following key concepts:

- CSS Layouts Identification and Design Evaluation
- Building CSS Base and Styles Guide Analysis
- Semantic CSS and HTML Foundation Development
- Responsive Grid System Formulation with Media Queries
- Base Button Module Development and Button Primary Extension
- Mobile Header Section Development including Navigation and Logo
- Background Image Positioning and Mobile Hero Section Development
- Icon Font Inclusion and Media Object Development
- File Structure Configuration and SCSS into CSS Transcompiler
- Desktop Header Section Development with Media Query and Variables
- Color Mask and Image Frame Module Development
- Identifying and Resolving Issues with Web Developer Tools
- Maximizing Available Space with Flexbox Applications
- Rows Reversal and Flexbox Grid Extension
- SVG Images Application and Implementation on the webpage

## **Audience:**

This course is tailored for the following group of professionals and interested candidates:

- Professional Web Developers
- Front-End Developers
- IT Professionals & Experts
- Junior-Level Developers
- Professionals striving to learn Advanced CSS

## **Prerequisites:**

Professionals planning to enroll in the Advanced CSS Concepts Course must comply with the following prerequisites:

- Familiarity with the Key Concepts of HTML
- Fundamental Knowledge of JavaScript Programming
- Practical Experience with CSS Implementation

## **Course Outline:**

### **Module 1 - Responsive Layout Using Media Queries**

- Resource Content: Building a Responsive Layout
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Planning and Designing a Layout
- Tutorial Lab: Building a Semantic HTML and CSS Foundation
- Tutorial Lab: Analyzing Style Guides to Build Your Base CSS
- Tutorial Lab: Using Media Queries to Create a Responsive Grid System

- Self-Assessment Lab: Build a Fluid Layout from a Wireframe

## **Module 2 - CSS Modules and High Fidelity Designs**

- Resource Content: Building the Base and CSS Modules
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Build the Base Button Module
- Tutorial Lab: Build the Mobile Header, Logo, and Navigation
- Tutorial Lab: Build the Hero Section and Background Image
- Tutorial Lab: Build a Media Object that Includes an Icon Font
- Self-Assessment Lab: Enhancing Your CSS Modules

## **Module 3 - Sass/Less and Preprocessing**

- Resource Content: CSS Preprocessing Tools
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Getting Started Transpiling SCSS into CSS
- Tutorial Lab: Build Desktop Header Section with Variables and Media Query Mixins
- Tutorial Lab: Create the Circle Image Frame Module and Color Mask Module
- Self-Assessment Lab: Updating Your CSS with Sass

## **Module 4 - Web App Testing and Support for Browsers and Devices**

- Resource Content: Tools for Testing and Supporting Web Apps
- Module Labs: Overview and Required Configuration Steps
- Tutorial Lab: Finding and Fixing Issues in Web Pages
- Tutorial Lab: Using Flexbox to Maximize Available Space
- Tutorial Lab: Extending Grid Styles with Flexbox
- Tutorial Lab: Adding SVG Images Using the Tag
- Self-Assessment Lab: Flexbox and SVG Images?