



Duration: 5 days



# 20481 - Essentials of Developing Windows Store Apps Using HTML5 and JavaScript

# **Overview:**

In this course students will learn essential programming skills and techniques that are required to develop Windows Store apps. This includes a combination of both design and development skills, as well as ensuring that students are comfortable using and making the most of the Visual Studio and Expression Blend

## **Target Audience:**

This course is intended for professional developers who have 1 or more years of experience in creating applications.

## **Pre-requisites:**

Before attending this course, students must have:

- 1 or more years of experience creating applications
- 1 3 months experience creating Windows client applications
- 1 3 months experience using Visual Studio 2010 or 2012
- Material taught in 20480A: Programming in HTML5 with JavaScript and CSS3, or equivalent

## **At Course Completion:**

After completing this course, students will be able to:

- Describe review the Windows 8 platform and features, and explore the basics of a Windows app interface
- Create the User Interface layout and structure Apply the MVVM pattern to application design
- Implement the AppBar
- and layout controls Use templates to create
- Use data binding to
- present data in the UI Handle files and streams Design and implement
- Process Lifetime Management (PLM) Handle navigation
- scenarios in a Windows Store app
- Implement Semantic
- Design and implement contracts such as Search, Share and Settings

## **Module 1: Overview of the** Windows 8 Platform and **Windows Store Apps**

#### Lessons

- Introduction to the Windows 8 Platform
- Windows 8 User Interface Principles
- WinRT and Language Projections

## Lab: Overview of the Windows 8 **Platform and Windows Store Apps**

- Explore the Windows 8 Platform Explore a Windows Store App
- Create an App User Interface Using Visual Studio 2012 and Blend Development Tools

## Module 2: Single-Page Applications and the MVVM Design Pattern

#### Lessons

- Single-Page Apps The MVVM Design Pattern

## Module 3: Using WinJS

- The WinJS Library
- WinJS APIs

#### Lab: Using WinJS

- Define the Data Namespace and Objects Use promises to load data
- asynchronously

## **Module 4: Implementing Layout using Windows 8 Built-**In Controls

#### Lessons

- Windows 8 Layout Controls
- Implementing Templates The AppBar Control Snap and Scale

#### Lab: Implementing Layout using **Windows 8 Built-In Controls**

- Implement an AppBar Control
- Create Adaptive Views
- Create a Template Control

## Module 5: Presenting Data

#### Lessons

- Working with Data Presentation ControlsThe ListView Control

## Lab: Presenting Data

- Create the Data
- Implement the ListView Control

## **Module 6: Handling Files in Windows Store Apps**

- Handling Files and Streams in
- Windows Store apps Working with File User Interface Components

## Lab: Handling Files in Windows **Store Apps**

- Read Data from the Notes File
- Write Data to the Notes File

## **Module 7: Windows Store App Process Lifetime** Management

#### Lessons

- Process Lifetime Management
- Launching Windows Store Apps Implementing State Management Strategy

## **Lab: Windows Store App Process** Lifetime Management

- Explore the Different PLM States
- Implement State Management

## **Module 8: Designing and** Implementing Navigation in a **Windows Store App**

#### Lessons

- Handling Navigation in Windows Store
- apps
   Semantic Zoom

## Lab: Designing and Implementing **Navigation in a Windows Store App**

- Add Navigation to the App
- Implement Semantic Zoom

## **Module 9: Implementing Windows 8 Contracts**

#### Lessons

- Designing for Charms and Contracts
- The Search Contract
  The Share Contract
- Managing App Settings and Preferences

# Lab: Implementing Windows 8

- Implement the Search Contract
- Implement the Share Contract
- Adding a New Setting to the Settings Pane



- Implement tiles and toast notifications in a Windows Store app
- Respond to mouse, keyboard and touch events, including gestures
- Deploy a Windows Store app to the Windows Store or an enterprise store

## **Module 10: Implementing Tiles** and User Notifications

#### Lessons

- Implementing Tiles, Live Tiles, Secondary Tiles, and Badge Notifications
   Implementing Toast Notifications

#### Lab: Implementing Tiles and User **Notifications**

- Enable Live Tile Functionality on the
- Main Tile

  Add Secondary Tile Functionality

## Module 11: Designing and **Implementing a Data Access** Strategy

### Lessons

- Evaluating Data Access Strategies Working with Remote Data

## Module 12: Responding to Mouse, Keyboard and Touch

#### Lessons

- Working with Mouse EventsWorking with Gesture Events

#### Lab: Responding to Mouse, Keyboard and Touch

- Implement Mouse EventsImplement Gesture Events

## **Module 13: Planning for Windows Store App Deployment**

### Lessons

- The Windows Store App Manifest Windows Store App Certification Enterprise App Deployment

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