



MCS D: Windows Store Apps Using C#

Solutions Developer

Course 20483B:

Exam Code: 070-483

Programming in C#

Course Outline

Module 1: Review of C# Syntax

- Overview of Writing Applications using C#
- Datatypes, Operators, and Expressions
- C# Programming Language Constructs

Module 2: Creating Methods, Handling Exceptions, and Monitoring Applications

- Creating and Invoking Methods
- Creating Overloaded Methods and Using Optional and Output Parameters
- Handling Exceptions
- Monitoring Applications

Module 3: Developing the Code for a Graphical Application

- Implementing Structs and Enums
- Organizing Data into Collections
- Handling Events

- **Module 4: Creating Classes and Implementing Type-safe Collections**

- Creating Classes
- Defining and Implementing Interfaces
- Implementing Type-safe Collections

- **Module 5: Creating a Class Hierarchy by Using Inheritance**

- Creating Class Hierarchies
- Extending .NET Framework Classes
- Creating Generic Types

- **Module 6: Reading and Writing Local Data**

- Reading and Writing Files
- Serializing and Deserializing Data
- Performing I/O Using Streams

- **Module 7: Accessing a Database**

- Creating and Using Entity Data Models
- Querying Data by Using LINQ
- Updating Data by Using LINQ

- **Module 8: Accessing Remote Data**



- Accessing Data Across the Web
- Accessing Data in the Cloud
- **Module 9: Designing the User Interface for a Graphical Application**
 - Using XAML to Design a User Interface
 - Binding Controls to Data
 - Styling a User Interface
- **Module 10: Improving Application Performance and Responsiveness**
 - Implementing Multitasking by using Tasks and Lambda Expressions
 - Performing Operations Asynchronously
 - Synchronizing Concurrent Access to Data
- **Module 11: Integrating with Unmanaged Code**
 - Creating and Using Dynamic Objects
 - Managing the Lifetime of Objects and Controlling Unmanaged Resources
- **Module 12: Creating Reusable Types and Assemblies**
 - Examining Object Metadata
 - Creating and Using Custom Attributes
 - Generating Managed Code
 - Versioning, Signing and Deploying Assemblies
- **Module 13: Encrypting and Decrypting Data**
 - Implementing Symmetric Encryption
 - Implementing Asymmetric Encryption
- **Course 20484B:**
Exam Code:070-484

Essentials of Developing Windows Store Apps Using C#

Course Outline

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

Introduction to the Windows 8 Platform

- WinRT and Language Projections
- Windows 8 UI Principles

Module 2: Creating User Interfaces using XAML

- XAML Basics
- XAML Code-Behind
- Advanced XAML

Module 3: Presenting Data

- Working with Data Presentation Controls
- The GridView Control

Module 4: Implementing Layout Using Windows 8 Built-In Controls

- WinRT Controls
- Snapped and Fill Views
- AppBar Control

Module 5: Handling Files in Windows Store Apps

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



- **Module 6: Windows Store App Process Lifetime Management**
 - Process Lifetime Management
 - Windows Store App Activation and Background Tasks
 - Implementing a State Management Strategy
- **Module 7: Working with Resources, Styles, and Templates**
 - Creating Shared Resources
 - Creating Styles and Templates
- **Module 8: Designing and Implementing Navigation in a Windows Store App**
 - Handling Navigation in Windows Store Apps
 - Semantic Zoom
- **Module 9: Implementing Windows 8 Contracts**
 - Designing for Charms and Contracts
 - The Search Contract
 - The Share Contract
 - Managing App Settings
- **Module 10: Implementing Tiles and User Notifications**
 - Implementing Tiles, Live Tiles, Secondary Tiles and Badge Notifications
 - Implementing Toast Notifications
- **Module 11: Designing and Implementing a Data Access Strategy**
 - Evaluating Data Access Strategies
 - Working with Remote Data
- **Module 12: Responding to Mouse and Touch**
 - Working with Pointer Events
 - Working with Gesture Events
- **Module 13: Planning for Windows Store App Deployment**
 - The Windows Store App Manifest
 - Windows Store App Certification
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Course 20485A:

Exam Code: 070-485

Advanced Windows Store App Development Using C#

Course Outline

Module 1: Windows Store Apps Essentials

- Review Windows 8 App Essentials - Presentation
- Review Windows 8 App Essentials - Under the Hood

Module 2: Implementing Animations and Transitions

- Using Animation
- Working with Transitions and Transformations

Module 3: Implementing Globalization and Localization

- Working with Resource Files
- Implementing Culture-Specific Formatting

Module 4: Branding and a Seamless User Interface

- Customizing the Splash Screen
- Differentiate your app with branding

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Module 5: Advanced Data Scenarios in a Windows Store App

- Windows Store App Storage Options
- Advanced File Functionality
- Implementing Data Caching

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- **Module 6: Creating Reusable Controls and Components**
- Creating Custom Controls
 - Extending Existing Controls
- Creating and Consuming WinMD Components
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- **Module 7: Implementing Advanced Contract Scenarios**
- The Print Contract
- The Play To Contract
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- **Module 8: The Windows Push Notification Service (WNS)**
- The Push Notification Service (WNS)
- Communicating with the Push Notification Service (WNS)
- **Module 9: Capturing Media**
- Using CameraCaptureUI to Capture Pictures, Videos or Audio
- Using MediaCapture to Capture Pictures, Video, or Audio
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- **Module 10: Background Tasks**
- Creating Background Tasks
- Consuming Background Tasks in a Windows Store App
- **Module 11: Working with Sensors and Devices**
- Working with Sensors
- Working with Devices
- **Module 12: Generating Revenue with your App**
- Implementing Trial Functionality in a Windows Store App
- Implement In-App Purchases
- Advertising in a Windows Store App
- **Module 13: Securing Windows Store App Data**
- Managing Windows Authentication
- Encryption in Windows Store Apps
- Managing Web Authentication
- **Module 14: Tracing and Profiling Windows Store Apps**
- Tracing a Windows Store App
- Profiling a Windows Store App
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- ❖ Modern Lab with Internet Facility.
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