

Course duration

- 5 days

Course Benefits

- Implementing Microsoft Identity
- Working with Microsoft Graph
- Determining workload platform targets
- Integration Points, including Microsoft Teams, Office Add-ins, and SharePoint Framework

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

1. Implement Microsoft Identity
 1. Microsoft Identity platform
 2. Register an Application
 3. Implement Authentication
 4. Configure Permissions to consume an API
 5. Implement Authorization to consume an API
 6. Implement Authorization in an API
 7. Create a Service to access Microsoft Graph
 8. Lab: Implement Microsoft Identity
 1. Registering an application in azure active directory
 2. Implementing Authentication
 3. Configuring permission to consume an API
 4. Implementing authorization to consume an API
 5. Implementing authorization in an API
 6. Creating a service to access Microsoft Graph
2. Work with Microsoft Graph
 1. What is Microsoft Graph
 2. Access user data from Microsoft Graph
 3. Data usage with query parameters
 4. Manage a group lifecycle on Microsoft Graph
 5. Access files with Microsoft Graph

6. Optimize network traffic
7. Lab: Work with Microsoft Graph
 1. Querying User Data from the Microsoft Graph
 2. Using Query Parameters when querying Microsoft Graph via HTTP
 3. Retrieving and controlling information returned from Microsoft Graph
 4. Creating an Office 365 Group and Team
 5. Uploading files to OneDrive and SharePoint
 6. Using Change Notifications and Track Changes with Microsoft Graph
 7. Reducing traffic with batched requests
 8. Understanding throttling in Microsoft Graph
3. Extend and Customize SharePoint
 1. SharePoint Framework web parts
 2. SharePoint Framework extensions
 3. Package and deploy a SPFx solution
 4. Consumption of Microsoft Graph
 5. Consumption of 3rd party APIs secured with Azure AD from within SPFx
 6. Web Parts as Teams Tabs
 7. Branding and theming in SharePoint
 8. Lab: Extend and Customize SharePoint
 1. Introduction to SharePoint Framework (SPFx)
 2. Working with the web part property pane
 3. Creating SharePoint Framework Extensions
 4. Creating a Command Set Extension
 5. Creating a Field Customizer Extension
 6. Deploying a SharePoint Framework Solution
 7. Calling Azure AD Protected 3rd Party REST APIs
 8. Deploying SPFx Solutions to Microsoft Teams
4. Extend Teams
 1. Microsoft Teams App
 2. Webhooks in Microsoft Teams
 3. Tabs in Microsoft Teams
 4. Messaging extensions in Microsoft Teams
 5. Conversational bots in Microsoft Teams
 6. Lab: Extend Teams
 1. Understanding the components of a Teams App
 2. Working with webhooks in Microsoft Teams
 3. Creating tabs in Microsoft Teams
 4. Understanding messaging extensions
 5. Understanding conversational bots
5. Extend Office
 1. Office Add-ins
 2. Office JS APIs
 3. Customization of Add-ins
 4. Testing, debugging, and deployment options
 5. Actionable message
 6. Lab: Extend Office
 1. Understanding fundamental components and types of Office Add-ins

2. Understanding Office JavaScript APIs
3. Understanding customization of Add-ins
4. Understanding actionable messages

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this Microsoft Office class:

- 1-2 years experience as a developer. This course assumes students know how to code and have a basic understanding of REST APIs, JSON, OAuth2, OData, OpenID Connect, Microsoft identities including Azure AD and Microsoft accounts, Azure AD B2C, and permission/consent concepts.
- Experience developing solutions on Microsoft Teams, Office Add-ins, or SharePoint Framework through all phases of software development.