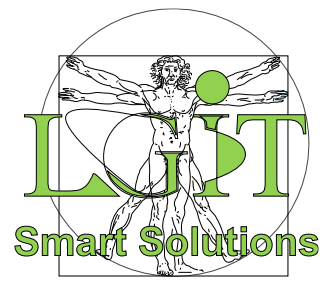


Building apps and solutions with M365 core services: MS-600T00



Course Overview

The Building applications and solutions with Microsoft 365 core services course is designed for persons who are aspiring to the Microsoft Teams Application Developer role. In this course, students will learn how to build collaboration solutions leveraging 4 central elements of the Microsoft 365 platform: implementing Microsoft identity, working with Microsoft Graph, extending and customizing Microsoft 365 with SharePoint Framework, and building applications for Microsoft Teams. In Implement Microsoft identity, students will learn to implement Microsoft identity including registering an application, implementing authentication, configuring permissions to consume an API, and creating a service to access Microsoft Graph. In Work with Microsoft Graph, students will learn how to access user data, explore query parameters, manage a group lifecycle, access files, and optimize network traffic using Microsoft Graph. In Extend and customize Microsoft 365 with SharePoint Framework, students will learn about SharePoint Framework web parts, extensions, and how to package and deploy a SPFx solution. In Build apps for Microsoft Teams, students will look at the components of a Teams App, work with webhooks, tabs, conversational bots, and other Microsoft Teams app capabilities. They will also learn to deploy Microsoft Teams apps.

Audience Profile

Students in this course are interested in the Microsoft 365 development platform or in passing the Microsoft Teams Application Developer Associate certification exam. Students should also have 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.

Prerequisites

Before attending this course, students should have:

- 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.
- It is recommended that students have some experience developing solutions on Microsoft Teams and/or SharePoint Framework through all phases of software development.

Duration: 30 hrs (10 x 3hrs)

Course Outline

Module 1: Implement Microsoft Identity

- Microsoft Identity platform
- Register an Application
- Implement Authentication
- Configure Permissions to consume an API
- Implement Authorization to consume an API
- Implement Authorization in an API
- Create a Service to access Microsoft Graph
- Registering an application in azure active directory
- Implementing Authentication
- Configuring permission to consume an API
- Implementing authorization to consume an API
- Implementing authorization in an API
- Creating a service to access Microsoft Graph

Module 2: Work with Microsoft Graph

- What is Microsoft Graph
- Access user data from Microsoft Graph
- Data usage with query parameters
- Manage a group lifecycle on Microsoft Graph
- Access files with Microsoft Graph
- Optimize network traffic
- Querying User Data from the Microsoft Graph
- Using Query Parameters when querying Microsoft Graph via HTTP
- Retrieving and controlling information returned from Microsoft Graph
- Creating an Office 365 Group and Team
- Uploading files to OneDrive and SharePoint
- Using Change Notifications and Track Changes with Microsoft Graph
- Reducing traffic with batched requests
- Understanding throttling in Microsoft Graph

Module 3: Extend and Customize SharePoint

- SharePoint Framework web parts
- SharePoint Framework extensions
- Package and deploy a SPFx solution
- Consumption of Microsoft Graph
- Consumption of 3rd party APIs secured with Azure AD from within SPFx
- Web Parts as Teams Tabs
- Branding and theming in SharePoint
- Introduction to SharePoint Framework (SPFx)
- Working with the web part property pane
- Creating SharePoint Framework Extensions
- Creating a Command Set Extension
- Creating a Field Customizer Extension
- Deploying a SharePoint Framework Solution
- Calling Azure AD Protected 3rd Party REST APIs
- Deploying SPFx Solutions to Microsoft Teams

Module 4: Extend Teams

- Microsoft Teams App
- Webhooks in Microsoft Teams
- Tabs in Microsoft Teams
- Messaging extensions in Microsoft Teams
- Conversational bots in Microsoft Teams
- Understanding the components of a Teams App
- Working with webhooks in Microsoft Teams
- Creating tabs in Microsoft Teams
- Understanding messaging extensions
- Understanding conversational bots

Module 5: Extend Office

- Office Add-ins
- Office JS APIs
- Customization of Add-ins
- Testing, debugging, and deployment options
- Actionable message
- Understanding fundamental components and types of Office Add-ins
- Understanding Office JavaScript APIs
- Understanding customization of Add-ins
- Understanding actionable messages