# MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services

**Category:** Software Development & Programming | **Vendor:** Microsoft

**Duration:** 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

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| **Delivery Format:** | Instructor Led - Online |
| **Certification:** | Microsoft 365 Certified: Teams Application Developer Associate |
| **Related Exam:** | MS-600 |

## Course Overview

This course covers five central elements of Microsoft 365 platform implementing Microsoft Identity, working with Microsoft Graph, extending and customizing SharePoint, extending Teams, and extending Office. In this course, students will learn how to implement Microsoft Identity and work with Microsoft Graph. Students will also gain the knowledge on UI elements (including Adaptive Cards and UI Fabric), Integration Points (including Microsoft Teams, Office Add-ins, SharePoint Framework, Actionable Messages), and determining workload platform targets. In implementing Microsoft Identity, students will learn to implement Microsoft identity including registering an application, implanting authentication, configuring permissions to consume an API, and creating a service to access Microsoft Graph. In working 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 extending and customizing SharePoint, students will learn about SharePoint Framework web parts, extensions, and how to package and deploy a SPFx solution. In extending Teams, students will look at the components of a Teams App, work with webhooks, tabs, and conversational bots. In extending Office, students work with Office Add-ins, task pane add-ins, JavaScript APIs, Office UI Fabric, and actionable messages with adaptive cards.

## About This Course

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## Who Should Attend

Students in this course are interested in Microsoft 365 development platform or in passing the Microsoft 365 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 & Entry Requirements

**General 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 through all phases of software development.

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

Implementing Microsoft Identity

Working with Microsoft Graph

Determining workload platform targets

Integration Points, including Microsoft Teams, Office Add-ins, and SharePoint Framework

## Detailed Course Outline

### 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

### 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

### 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

### Extend Teams

- Microsoft Teams App
- Webhooks in Microsoft Teams
- Tabs in Microsoft Teams
- Messaging extensions in Microsoft Teams
- Conversational bots in Microsoft Teams

### Extend Office

- Office Add-ins
- Office JS APIs
- Customization of Add-ins
- Testing, debugging, and deployment options
- Actionable message

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## 1 - Getting Started with Microsoft Identity

- Different types of tokens used in Microsoft identity
- Account types in Microsoft identity
- Identity topology options

## 2 - Application types in Microsoft identity

- Single-page applications
- Web apps that sign in users and call APIs
- Daemon and non-interactive apps

## 3 - Permissions and Consent Framework

- Understand the permissions and consent framework in the Microsoft identity platform
- Delegated permissions and consent
- Application permissions and consent

## 4 - Secure custom APIs with Microsoft Identity

- Create and secure a web API with Microsoft identity
- Call secured APIs from web applications
- Call secured APIs from daemon apps

## 5 - Work with users, groups, and roles in custom apps and APIs

- Role-based access control in Microsoft identity
- Utilize security groups in custom apps and APIs secured with Microsoft identity
- Use application roles in custom apps and APIs

## 6 - Optimize data usage when using Microsoft Graph with query parameters

- Microsoft Graph of Query Parameters
- Expand related entities & search content in Microsoft Graph
- Reduce traffic with batched requests

## 7 - Optimize network traffic with Microsoft Graph

- Understand throttling in Microsoft Graph
- Avoid throttling & implement throttling strategies
- Eliminate polling Microsoft Graph with delta query

## 8 - Access User Data from Microsoft Graph

- Working with users in the organization
- User profile photos and related users
- Modifying users

## 9 - Manage Group Lifecycle with Microsoft Graph

- Working with groups in the organization
- Users and their groups
- Manage group lifecycle

## 10 - Access Files with Microsoft Graph

- Access and download files from OneDrive
- Uploading files to OneDrive
- Work with file relationships and trends in OneDrive

## 11 - Use Change Notifications and Track Changes with Microsoft Graph

- Microsoft Graph overview and .NET core web APIs
- Microsoft Graph change notifications
- Microsoft Graph track changes (delta query)

## 12 - Introduction to building apps for Microsoft Teams

- What are Microsoft Teams apps?
- How do you create an app for Microsoft Teams?
- When should you choose to build a custom Microsoft Teams app?

## 13 - Task-oriented interactions in Microsoft Teams with messaging extensions

- Microsoft Teams messaging extensions and action commands
- Search command message extensions
- Link unfurling message extensions

## 14 - Create embedded web experiences with tabs for Microsoft Teams

- Create a custom Microsoft Teams personal tab
- Create a custom Microsoft Teams channel or group tab
- Implement authentication in a custom tab

## 15 - Create interactive conversational bots for Microsoft Teams

- Overview of bots with Microsoft Teams
- Bots in Microsoft Teams channels and group chats
- Proactive messages from bots

## 16 - Collect Input in Microsoft Teams with Task Modules

- Collecting user input with task modules
- Using adaptive cards and deep links in task modules
- Using task modules with bots

## 17 - Connect web services to Microsoft Teams with webhooks and Office 365 Connectors

- Connect web services to Microsoft Teams with webhooks
- Create incoming webhooks
- Use Office 365 Connectors in Microsoft Teams

## 18 - Microsoft Teams - Use the teamwork Microsoft Graph endpoint

- Use Microsoft Graph with Microsoft Teams
- Configure a built-in tab with Microsoft Graph
- Use Microsoft Graph to post to the activity feed

## 19 - Microsoft Teams - Authentication and Single Sign-on

- Understand authentication and single sign-on (SSO) in Microsoft Teams apps
- Single sign-on (SSO) with Microsoft Teams tabs
- Single sign-on (SSO) with Microsoft Teams bots

## 20 - Create interactive meeting apps for Microsoft Teams

- Understand Microsoft Teams meetings apps
- In-meeting experience and participant roles
- Implement a post-meeting experience for attendees

## 21 - Distribute your Microsoft Teams app

- Manage apps in the Developer Portal
- Upload to a user or team
- Publish to your organization
- Automate Teams app deployment

### □□ Certification Path

Microsoft 365 Certified: Teams Application Developer Associate

Exam: MS-600

# Additional Course Details

Nexus Humans MS-600 Building Applications and Solutions with Microsoft 365 Core Services training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the MS-600 Building Applications and Solutions with Microsoft 365 Core Services course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

### Q: What delivery options are available for MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: What certification does this course prepare me for?

The MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services course helps prepare you for the Microsoft 365 Certified: Teams Application Developer Associate certification path.

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### Q: Which exam does this course prepare me for?

This course prepares you for the MS-600 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

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### Q: How many CPD hours does this course provide?

The 5-day MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services?

Yes, we provide corporate training, dedicated training, and closed classes for MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: ms600 ms 600

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### Q: Why choose Nexus Human for MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your MS-600T00 Building Applications and Solutions with Microsoft 365 Core Services training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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