

Dynamics 365 for Finance and Operations: Development



WorkshopPLUS

Target Audience:

This course is designed for those responsible for creating, customizing, and extending modifications in Microsoft Dynamics 365 for Finance and Operations. The pre-requisites that allow candidates to see the most value from this course are:

- A good understanding of Microsoft Dynamics 365 for Finance and Operations, SQL Server, and Visual Studio
- Previous experience with object oriented programming and X++
- This is a level 300 course

Overview

Microsoft Dynamics® 365 for Finance and Operation offers a great amount of flexibility to adapt to your business. With the Development Workshop, we will take you on a journey into customizing the application to meet your needs. The training covers architecture, data dictionary, user interfaces, X++, overlaying vs extensions, control statements, objects and classes, accessing the database, exception handling, security, mobile, performance and integration. This course is designed to enhance your Dynamics 365 for Finance and Operations development skills.

This workshop is intended for individuals who have at least three years of experience developing in Microsoft Dynamics 365 for Finance and Operations or the previous version, Microsoft Dynamics AX 2012. In this course, participants will learn the development components and how to use these components to create, customize, and extend modifications in Microsoft Dynamics 365 for Finance and Operations.

Technical Highlights

After attending this workshop, students will be able to:

- Understand the requirements and prerequisites for Dynamics 365 for Finance and Operations.
- Use the various Dynamics 365 for Finance and Operations development components and features.
- Understand the basics for developing for performance.
- Manage the movement of customizations from one environment to another.
- Understand a suite of tools available for integration.

Syllabus

This workshop runs for 3 full days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

In order to ensure that concepts are practiced and understood, hands on-labs are an emphasis of this course

This is a 3 day workshop, typically scheduled from 9 to 5.

Architecture:

Introduces students to the architecture that now supports Dynamics 365 for Finance and Operations.

Navigation:

Introduces students to navigational elements of the new applications that they will be using. These include, navigating around the new UI for Dynamics 365 for Finance and Operations. New features in Visual Studio to support development in Dynamics 365 for Finance and Operations, and an introduction to Task Recorder, one of the tools that is used to support the new application.

*Note, this content is optional and is intended to be delivered to students who are new to Dynamics 365 for Finance and Operations. If students have already done work within the application this module will not be delivered.**

Application Object Tree

In this module, students will learn about new features of the Application Object Tree. They will be introduced to concepts of projects, models, layers and packages and how they relate to each other.

Development

This module covers how forms have changed and the newly added features in Dynamics 365 for Finance and Operations. Students learn the differences between overlaying and extensions and introduces students to extensions and how they should be implemented, including plugins.

Students learn about the new development tools in Dynamics 365 for Finance and Operations, the various patterns to access the database and how exception handling works in Dynamics 365 for Finance and Operations.

*Note, there is an additional optional component that describes different methods of debugging code for Dynamics 365 for Finance and Operations and the various patterns to access the database.**

ALM and DevOps

In this module, students learn about the fundamentals of ALM and DevOps and how it works in relation to Dynamics 365 for Finance and Operations. They learn specifically about deployments, builds and unit testing within the new Dynamics 365 for Finance and Operations ecosystem.

Syllabus

Hardware

Requirements:

Lab environment for this course is hosted in the cloud.

Network

Requirements:

Fast and reliable internet connectivity to the Microsoft Azure Cloud platform.

Lifecycle Services

Students learn about the fundamentals of Lifecycle Service and various tools that can assist in the implementation and on-going maintenance of Dynamics 365 for Finance and Operations.

Performance

Within the performance module, the fundamentals are reviewed before delving into some of the new performance specific features in Dynamics 365 for Finance and Operations, these include the sandbox framework, the async framework, the batch processing framework, and the PerfSDK.

Integration

This module introduces students to the considerations that need to be evaluated when determining the type of integration pattern to use. It then delves into a number of technologies and approaches that can be used for integration. These include Logic apps, OData, calling external web services, DIXF, PowerApps and Flow/CDS.

Security

Students learn about Azure AD and how it works in relation to Dynamics 365 for Finance and Operations. They will also learn about some of the changes to the way security is setup and configured for users within Dynamics 365 for Finance and Operations.

Mobile Apps

The students are introduced to the new mobile framework and learn how to create and publish mobile content for Dynamics 365 for Finance and Operations.

Number Sequences and Workflow

In this module we investigate how to extend number sequences and create workflows.

**The additional material cannot all be covered in the 3-day workshop, therefore during the scoping call the Premier Field Engineer can discuss the options and pick the ideal set of content for the customer.*