# Microsoft Dynamics 365: Finance and Operations Apps Developer (MB-500) Training

Duration: **5 Day**

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## Overview

The **Microsoft Dynamics 365: Finance and Operations Apps Developer (MB-500)** course provides developers with the skills required to **customise, extend, and integrate** Dynamics 365 Finance and Operations applications to meet specific business needs.

This **5-day intensive program** focuses on real-world technical implementation—covering**architecture, ALM, X++ coding, data migration, integration, reporting, and performance optimisation.**

Learners will engage in **hands-on labs** and practice key development scenarios using**Visual Studio, Azure, Power Platform, and Dataverse.**

## Prerequisites

Participants should have:

- Basic understanding of**Dynamics 365 Finance and Operations**,
- Experience with **Visual Studio** and version control tools,
- Familiarity with **SQL, data structures, and Azure fundamentals**.

## Who Should Attend

This course is intended for:

- **Dynamics 365 Finance and Operations App Developers**,
- **Technical consultants and solution architects**,
- Developers experienced with **X++, Visual Studio, or Azure integration**.

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## What You Will Learn

By the end of this course, participants will be able to:

- Understand **Finance and Operations architecture** and deployment.
- Develop solutions using **Visual Studio and X++**.
- Manage ALM with **Lifecycle Services (LCS)**.
- Implement **data migration and integration with Azure**.
- Build and deploy reports using **Power BI**.
- Secure and optimise system performance.

## Outline

**Module 1: Overview & Architecture**
Describe the Dynamics 365 ecosystem and major components of the Dynamics 365 Finance and Operations (FO) software, describe the architecture of D365FO, describe relevant D365FO design and deployment considerations

Lessons

- Explore the ecosystem and main components
- Explore the technical architecture
- Explore design and deployment considerations
- Lab : Development Environment configuration and Project/Model Creation

**Module 2: Developer Tools**
Manage system implementations by using Lifecycle Services, Customize D365FO by using Visual Studio, Manage source code and artifacts by using version control, Work with other development tools to complete tasks

Lessons

- Manage implementations by using Lifecycle Services
- Manage source code by using version control
- Customize by using Visual Studio
- Lab : Source Control using DevOps

**Module 3: Solution Design**
Determine the required application stack components and server architecture, Implement Application Lifecycle Management (ALM), Design a solution for D365FO

Lessons

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- Implement application lifecycle management
- Lab : Data Structure Development

**Module 4: AOT Elements**
Create forms, Create and extend tables, Create Extended data Types (EDT) and enumerations, Create classes and extend AOT elements

Lessons

- Build extended data types and enumerations
- Build tables
- Build forms and optimize form performance
- Create classes
- Create other user interface elements
- Lab : Metadata Extension & Development

**Module 5: Code Development & Testing**
Develop X++ code, Develop object-oriented code, Extend D365 FO functionality, Describe test framework and tools, Perform Unit Testing

Lessons

- Explore the test framework and use tools
- Get started with development using X++
- Develop object-oriented code
- Use RSAT tool
- Lab : Code Extension & Development

**Module 6: Data Migration**
Describe migration tools and methodologies, Plan Migration strategy, Prepare data for migration and migrate data

Lessons

- Prepare data for migration
- Lab : Data Export/Import using Data Entity
- Lab : Recurring Data Transfer

**Module 7: Frameworks**
Implement D365 FO functionality

Lessons

- Introduction

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- Explore extensions and the extension framework
- Extend elements
- SysOperationSandbox framework
- Summary
- Lab : SysExtension Framework

**Module 8: Integration**
Identify Data integration patterns and scenarios, Implement Data integration concepts and solutions, Implement Recurring integrations, Integrate D365FO with Microsoft Azure, Troubleshoot integration errors, Implement the Data Management Package API

Lessons

- Identify data integration patterns and scenarios
- Implement data integration concepts and solutions
- Implement the data management package API
- Data integrations
- Integrate with Microsoft Azure
- Connecting to Power Platform services
- Consume business events
- Integrate Finance and Operations apps with Microsoft Dataverse
- Lab : OData Integration
- Lab : Logic App Integration
- Lab : Calling an External Web Service

**Module 9: Reporting**
Describe the capabilities and limitations of reporting tools in D365FO, Design, create, and revise Dynamics Reports, Design, create, and revise Dynamics workspaces, Design, create, and revise data sources that connect to data stores external to D365FO

Lessons

- Explore the reporting tools
- Build reports
- Build workspaces
- Manage data sources with external data stores
- Lab : Power BI reporting from F&O

**Module 10: Security & Performance**
Describe and implement performance tools and LCS Environment Monitoring tools, Implement role-based security policies and requirements, Apply fundamental performance optimization techniques, Optimize performance for batch processes, Optimize user interface performance, Enhance Integration performance, Optimize Report Performance

Lessons

- Work with performance and monitoring tools

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- Implement role-based security
- Apply basic performance optimization techniques
- Lab : Async & Sandbox Functionality