

KOENIG SOLUTIONS · COURSE OUTLINE

MB-500T00: Microsoft Dynamics 365: Finance and Operations Apps Developer

Learn to design, develop, extend, integrate and secure solutions on Dynamics 365 Finance and Operations apps.

5 Days

40 HOURS

16

MODULES

1

TOPICS

40

HANDS-ON ACTIVITIES

COURSE OVERVIEW

The MB-500T00: Microsoft Dynamics 365: Finance and Operations Apps Developer course is designed for professional developers and technical consultants who want to learn how to customize and extend the capabilities of Dynamics 365 Finance and Operations (D365FO). This comprehensive course covers the architecture of D365FO, development environment setup, and Project/model creation. Participants will gain in-depth knowledge of Developer Tools, including Lifecycle Services (LCS), Visual Studio customization, Source code management, and the Application Object Tree (AOT). The course also delves into Solution design, Code development, and Testing, teaching best practices for creating efficient and high-quality code. Furthermore, learners will explore data migration tools, frameworks for extending D365FO functionality, and various integration scenarios with other systems and Azure services. Reporting and analytics are also covered, providing insights into creating and optimizing reports. Finally, the course addresses security and performance optimization, ensuring that the solutions developed are secure, scalable, and performant. By the end of the course, learners will have the skills necessary to design, develop, and maintain solutions that enhance the capabilities of Dynamics 365 Finance and Operations, preparing them for the challenges of real-world development projects.

Who Should Attend

The MB-500T00 course is designed for professionals seeking expertise in Dynamics 365 Finance and Operations app development

Dynamics 365 Developers

Technical Consultants with a focus on Dynamics 365 FO

Software Engineers transitioning to Dynamics 365 platform

Solution Architects working on Microsoft Dynamics solutions

Systems Developers requiring knowledge of D365FO architecture

IT Professionals aiming for career advancement in Dynamics 365 customization

Existing Microsoft Certified Professionals (MCPs) specializing in finance and operations apps

DevOps Engineers focusing on lifecycle services and automation for Dynamics 365

Database Administrators involved in data migration for D365FO

Business Analysts looking to understand the technical aspects of D365FO solutions

Technical Project Managers overseeing D365FO implementations

Data Integration Specialists working with Dynamics 365 and Azure

Reporting Specialists focused on BI and analytics within Dynamics 365 FO

Security Consultants responsible for role-based access and security in Dynamics 365

Performance Engineers optimizing Dynamics 365 FO environments

Quality Assurance Testers involved in unit testing of Dynamics 365 FO applications

Professional Developers interested in extending their skills to the Dynamics 365 platform

COURSE SYLLABUS

16 Modules, 1 Topic

Learning Path 1 - Introduction to Developing with Finance and Operations Apps

01

Explore the Ecosystem and Main Components

02

Explore the Technical Architecture

03

Explore Design and Deployment Considerations

04

Manage Implementation by Using Lifecycle Services

Work with Performance and Monitoring Tools

Exercise

06

Manage Source Code by Using Version Control

Explore the Test Framework and Tools

2 Group Discussions

Explore Reporting Tools

Exercise

Activity

Learning Path 2 - Build Finance and Operations Apps

Set Up a VHD

Exercise

Start Developing

2 Demos

Exercise

Get Started with Development Using X++

Demo

Develop Object-oriented Code

Exercise

05

Implement Application Lifecycle Management

Build Extended Data Types and Enumerations

[Exercise](#)

Build the Data Model

[Exercise](#)

Build Forms and Optimize Form Performance

[Demonstrator](#)

[Exercise](#)

Create Classes

[Exercise](#)

Build Reports

[Demo](#)

[Exercise](#)

Build Workspaces

[Exercise](#)

Implement Role-based Security

[Exercise](#)

Apply Basic Performance Optimization

[Exercise](#)

[Video](#)

[Activity](#)

Learning Path 3 - Extend Finance and Operations Apps

Explore Extensions and the Extension Framework

[Exercise](#)

Extend Elements

[Exercise](#)

[Group Discussion](#)

03

Consume Business Events

Work with Workflows

[Exercise](#)

[Activity](#)

Learning Path 4 - Connect to Finance and Operations Apps

01

Identify Data Integration Patterns and Scenarios

02

Implement Data Integration Concepts and Solutions

03

Implement the Data Management Package API

04

Data Integration

Exercise

Video

TOPICS

Set Up a Data Project and Recurring Data Job

05

Prepare Data for Migration

Manage Data Sources with External Data Stores

Exercise

07

Integrate with Microsoft Azure

08

Connect to Microsoft Power Platform Services

Work with Tools and Best Practices to Integrate with Microsoft Power Platform

Exercise

Activity

Learning Path 5 - Migrate Data and Go Live

Work with Data Management

2 Exercises

Group Discussion

Perform User Acceptance Testing

Exercise



03

Prepare to Go Live

04

Use Regression Suite Automation Tool (RSAT)

Work with Analytics and Reporting

Exercise

Configure Electronic Reporting

Exercise

Activity

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
05	Work with Performance and Monitoring Tools	Exercise: Use the Environment Monitoring Tool in Lifecycle Services
07	Explore the Test Framework and Tools	GROUP DISCUSSION ■ Testing Methodologies, Scenario 1/2 ■ Testing Methodologies, Scenario 2/2
08	Explore Reporting Tools	Exercise: Set Authorization Requirements on Database Tables Lab 1: Create a New Module & Workspace
01	Set Up a VHD	Exercise: Install a Virtual Machine
02	Start Developing	DEMO ■ Create and Build Projects ■ Build Deployment Packages Exercise: Create a Project and Add an Element
03	Get Started with Development Using X++	Demo: Conditional Statements
04	Develop Object-oriented Code	Exercise: Create an Extension by Using Chain of Command
06	Build Extended Data Types and Enumerations	Exercise: Create a Base Enumeration, Add Elements, and Update Properties
07	Build the Data Model	Exercise: Create a Table, Add Fields, and Create Field Groups

#	MODULE	ACTIVITY
08	Build Forms and Optimize Form Performance	Demonstrator: How to Add a Form to a Project and Apply a Pattern to the Form Exercise: Create a Form
09	Create Classes	Exercise: Insert Records by Using a Runnable Class
10	Build Reports	Demo: Connect to your Data by Using Power BI Exercise: Create and Deploy a Report
11	Build Workspaces	Exercise: Create a Workspace and Add a Tile, List, Link, and Power BI Element
12	Implement Role-based Security	Exercise: Create a New Security Role and Add Dues
13	Apply Basic Performance Optimization	Exercise: Create Runnable Classes in Visual Studio to Test Code Video: Extended Data Security Lab 2: Create a New EDT Table and Form
01	Explore Extensions and the Extension Framework	Exercise: Extend an EDT
02	Extend Elements	Exercise: Extend a Form and Add Controls Group Discussion: Code Augmentation (1/5 to 5/5)
04	Work with Workflows	Exercise: Create a Purchase Requisition Workflow Lab 3: Create a Custom Workflow on the Poisons Form
04	Data Integration	Exercise: Create a Data Project and Recurring Data Job Video: Integration with Dataverse using a Virtual Entity
06	Manage Data Sources with External Data Stores	Exercise: Create a Data Entry
09	Work with Tools and Best Practices to Integrate with Microsoft Power Platform	Exercise: Troubleshoot Dual-write Integration Lab 4: Create a Composite Data Entity
01	Work with Data Management	EXERCISE ■ Explore the Data Management Workspace ■ Export Data Using the Data Management Workspace Group Discussion: BYOD vs. Entity Store (Scenario 1 & 2)
02	Perform User Acceptance Testing	Exercise: Build Test Scripts to Test Business Functionality
05	Work with Analytics and Reporting	Exercise: Work with Reports
06	Configure Electronic Reporting	Exercise: Generate Electronic Documents for Payments Lab 5: Data Export Using Bring Your Own Database (BYOD)

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

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