Microsoft Dynamics 365 Finance and Operations Apps Developer MB500 Training Course



New York - San Francisco - London - Sydney - Dubai - Singapore - Vancouver - Bangalore

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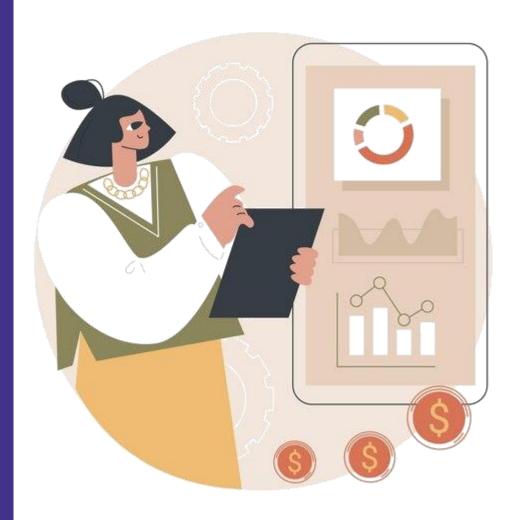
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Microsoft Dynamics 365 Finance and Operations Apps Developer MB500 Training Course

- ✓ The Microsoft Dynamics 365 Finance and Operations Apps Developer (MB500) Training Course is a comprehensive program that focuses on equipping participants with the skills needed to develop, customise, and optimise solutions within the Dynamics 365 Finance and Operations suite.
- ✓ This training covers various aspects, including development tools, data modeling, customisation, integration, application lifecycle management, and security. You will also learn how to migrate data and understand go-live preparation for Microsoft Dynamics 365.
- ✓ This course is ideal for developers, IT professionals, and system administrators seeking to master the development and customisation of Dynamics 365 Finance and Operations applications. Successful completion of this training enables participants to design and implement tailored solutions, enhancing business processes and outcomes.



This course is split into 34 easy-to-understand modules, which will enable you to use of customise and extend Dynamics 365 solutions to meet specific business needs.

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- Module 34: Apply Basic Performance Optimisation in Finance and Operations Apps

Describe the Finance and Operations Apps

- Introduction
- Describe Enterprise Resource Planning (ERP)
- Describe Finance and Operations Apps Use Cases
- Describe the Finance and Operations Apps User Interfaces
- Exercise: Navigate the Finance and Operations Apps



Explore the Ecosystem and Main Components of Finance And Operations Apps

- Finance and Operations Apps and Associated Apps
- Finance + Operations On-Premises and Cloud-Based Finance and Operations Apps
- Development and Deployment Processes
- User Interface
- Reporting Capabilities



Key Differences Between Dynamics AX 2012 And Finance and Operations Apps

- Introduction
- Microsoft Programs to Help Customers
- Microsoft Cloud
- Cloud Concepts
- Architecture Differences to Consider
- Operational Differences to Consider



Explore the Technical Architecture of Finance and Operations Apps

- Differentiate Cloud and On-Premises Architecture
- Elements, Models, And Packages
- Application Components and Architecture
- Metadata Management Processes
- Source Control Processes
- Conform Code to Organisation Policies
- Overview of Lifecycle Services



Implement Application Lifecycle Management in Finance and Operations Apps

- ALM Methodologies
- Design and Create Models
- Plan the Build, Test, And Quality Control Processes
- Identify Upgrade Scenarios and Appropriate Tools
- Plan the Release, Change, And Risk Management Processes



Manage Finance and Operations Apps Implementations by Using Lifecycle Services

- Introduction
- Perform Support Tasks
- Provision and Manage Environments
- Manage Asset Libraries
- Manage the Code Update Process



Start Developing for Finance and Operations Apps by Using Visual Studio

- Introduction
- Create and Build Projects
- Create and Use Label Files
- Manage Metadata by Using the Application Explorer
- Build Deployment Packages
- Synchronise Data Changes with The Database
- Use the Element Designer to Create Elements
- Lab: Create A Project and Add an Element ctive Interpersonal Communication



Manage Source Code by Using Version Control in Finance and Operations Apps

- Introduction
- Configure Visual Studio to Connect to Azure Devops
- Working in Visual Studio
- Manage and Perform Code Reviews



Build Extended Data Types and Enumerations for Finance and Operations Apps

- Introduction
- Extended Data Types and Element Properties
- Base Enums and Element Properties
- Lab: Create a Base Enumeration, Add Elements, and Update Properties



Build Data Models in Finance and Operations Apps

- Create Tables and Table Fields
- Populate Table and Field Properties
- Add Fields, Field Groups, Indexes, and Relations
- Table Methods
- Create, Manage, and Extend Views
- Create, Manage, and Extend Queries
- Create, Manage, and Extend Table Maps
- Lab: Create a Table, Add Fields, And Create Field Groups



Extend Elements in Finance and Operations Apps

- Introduction
- Add A Table Extension to a Project
- Add A Form Extension to a Project
- Extend Menus
- Implement Delegates
- Lab: Extend A Form and Add Controls



Build Forms and Optimise Form Performance in Finance and Operations Apps

- Introduction
- Add A New Form to a Project and Apply A Pattern
- Add A Data Source to a Form
- Add Grids, Fields, And Groups to a Form
- Form Methods
- Create and Populate Menu Items
- Create and Extend Menus
- Test Form Functionality and Data Connections
- Diagnose and Optimise Client Performance
- Optimise Form Loading and Performance
- Lab: Create a Form



Create Classes in Finance and Operations Apps

- Introduction
- Add a Class to A Project
- Add Code and Methods to Meet Business Requirements
- Data Manipulation
- Lab: Insert Records by Using a Runnable Class



Explore Extensions and The Extension Framework in Finance and Operations Apps

- Introduction
- Customisation Models
- Extension Points for Frameworks
- Develop Code to Extend A Framework
- Create Pre-Event and Post-Event Handler Classes
- Implement the Sys operation sandbox Framework
- Lab: Extend An EDT



Configure Your User Interface in Finance and Operations Apps

- Introduction
- Manage Menus: Favorites
- Manage Menus: Dashboards by Role
- Manage Menus: Key Performance Indicators
- Manage Forms: Fields
- Manage Forms: Filters and Ranges
- Configure Reports
- Exercise: Create Favorites
- Exercise: View Role-Based Dashboards
- Exercise: Change Form Fields and Queries
- Exercise: Change Report Output



Build Workspaces in Finance and Operations Apps

- Design Kpis
- Create Drill-Through Workspace Elements
- Create Custom Reusable Report Functions by Using RDL
- Implement Built-In KPIs, Charts, And Other Reporting Components
- Exercise: Create A Workspace and Add a Tile, List, Link, And Power BI Element



Get Started with Development Using X++ In Finance and Operations Apps

- Introduction
- Implement Base Types and Operators
- Common Structured Programming Constructs Of X++
- Use X++ To Write SQL Statements
- Use Conditional and Iterative Statements
- Exception Handling
- Use Const Values
- Use X++ Runtime Functions for Common Tasks
- Call .NET Libraries by Using X++ Code



Develop Object-Oriented Code in Finance And Operations Apps

- Introduction
- Explore Inheritance and Abstract Classes
- Use Attributes
- Implement Chain of Command
- Implement X++ Scoping and Access Identifiers
- Interfaces
- Exercise: Create an Extension by Using Chain Of Command



Build Reports for Finance and Operations Apps

- Implement Business Document Management
- Create and Modify Reports That Use SSRS
- Implement Query Objects and Query Builder
- Create and Modify Reports by Using Power BI
- Create and Modify Reports by Using Excel
- Exercise: Create and Deploy A Report



Implement the Data Management Package API For Finance and Operations Apps

- Introduction
- Import and Export Apis
- Monitor the Status of APIs
- Manage Entity Change Tracking
- Create Wrapper Classes to Consume External Web Services
- Create Wrapper Classes with C#



Explore the Test Framework and Tools in Finance and Operations Apps

- Introduction
- Unit Test Framework
- Acceptance Test Library
- Task Recorder
- Best Practices Tool
- Identify Various Categories and Types of Errors
- Configure the Testing Environment and Prepare Data
- Run Unit Tests
- Document and Fix Issues



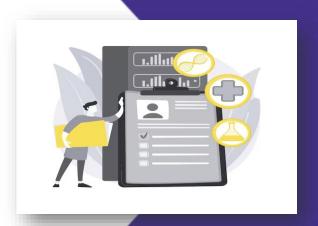
Perform User Acceptance Testing in Finance and Operations Apps

- Introduction
- Create User Acceptance Test Libraries
- Record Test Cases and Save To BPM
- Synchronise and Configure Your Test Plan in Azure Devops
- Run User Acceptance Tests
- Data Task Automation
- Exercise: Build Test Scripts to Test Business Functionality



Explore Reporting Tools in Finance and Operations Apps

- Introduction
- Create and Modify Report Data Sources and Supporting Classes
- Implement Reporting Security Requirements
- Publish A Report
- Lab: Set Authorisation Requirements on Database Tables



Compare Reporting and Analytics in Finance and Operations Apps with Dynamics AX 2012

- Introduction
- Reporting and Power BI Analysis
- Reporting Options
- Data Export Components
- Modernise Your Data Warehouse
- Modernise Your Analytics and Reporting



Identify Data Integration Patterns and Scenarios in Finance And Operations Apps

- Introduction
- Select an Integration API
- Synchronous and Asynchronous Patterns
- Data Integration Scenarios



Implement Data Integration Concepts and Solutions for Finance and Operations Apps

- Introduction
- Develop an Entity and Enable It for Data Export
- Implement Custom Services
- Expose Odata Endpoints from Data Entities
- Consume External Web Services
- Integrate Finance and Operations Apps with Microsoft Excel
- Integrate Finance and Operations Apps with External Applications by Using Power Apps
- Download Electronic Document Interchange Solutions
- Verify Source and Target Data for Auditing
- Debug with JSON Web Tokens



Data Integrations with Finance and Operations Apps

- Introduction
- Set Up A Data Project and Recurring Data Job
- Exercise Create A Data Project and Recurring Data Job
- Implement Authorisation to Support Integration
- Monitor Status and Availability of Entities
- Develop Data Transformation
- Microsoft Dataverse Integrations
- Integrate Dataverse By Using Virtual Entities
- Work with Composite Data Entities
- Azure Data Lake and Entity Store
- Connect to Azure Data Lake Storage



Data Integrations with Finance and Operations Apps

- Change Data in Azure Data Lake
- Power Platform Convergence



Connect to Microsoft Power Platform Services with Finance and Operations Apps

- Connect Your Finance and Operations Apps Data Using Power Automate
- Triggers and Actions Used in Power Automate for Finance and Operations Apps
- Connect to Your Finance and Operations Apps Data with Power Apps
- Finance and Operations Data on Common Data Model and Microsoft Dataverse



Dual-Write Implementation for Dynamics 365 Solutions

- Introduction
- Dual-Write Implementation Workshop Overview
- Prepare for The Workshop
- Workshop Implementation and Follow-Up



Work with Data Management in Finance and Operations Apps

- Introduction
- Data Management Concepts
- Use Data Entities for Data Management and Integration
- Work with the Data Management Workspace
- Using Standard and Enhanced Views for Tiles
- Use Templates in Data Management
- Export, Import, And Copy Data into A Legal Entity
- Database Movement Operations
- Data Sharing Framework
- Lab: Explore the Data Management Workspace
- Lab: Export Data Using the Data Management Workspace



Work with Performance and Monitoring Tools in Finance and Operations Apps

- Introduction
- Diagnose Performance Issues by Using Trace Parser
- Load Testing by Using the Performance SDK
- Monitor Performance by Using SQL Insights
- Create A SQL Trace by Using the SQL Profiler
- Monitor Server Health Metrics in Lifecycle Services
- Exercise: Use the Environment Monitoring Tool in Lifecycle Services



Implement Role-Based Security in Finance and Operations Apps

- Introduction
- Create and Modify Duties, Privileges, And Permissions
- Enforce Permissions Policy
- Extensible Data Security Framework
- Apply Security Permissions
- Microsoft Entra ID and Oauth 2.0 Authentication
- Lab: Create A New Security Role and Add Duties



Plan and Implement Security in Finance and Operations Apps

- Introduction
- Understand the Security Architecture
- Encryption in Finance and Operations Apps
- Manage Users and Security
- Run Security Reports
- Stay Compliant with User Licensing Requirements
- Security Diagnostics for Task Recordings
- Extensible Data Security Policies
- Exercise Import A User and Assign Security Role
- Lab: Work with Security



Apply Basic Performance Optimisation in Finance and Operations Apps

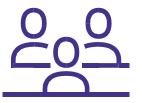
- Introduction
- Identify and Apply Caching Mechanisms
- Optimise Temporary Table Usage
- When to Use Set-Based Statements and Row-Based Operations
- Query Optimisation Principles
- Modify the Scope of a Variable
- Analyse and Optimise Concurrency
- Apply Parallel Processing Algorithms
- Implement the Async Framework
- Develop Windows Powershell Scripts
- Lab: Create Runnable Classes in Visual Studio to Test Code



Our Delivery Methods









POPULAR

Online Instructor-led

Join a scheduled class with a live instructor and other delegates.

Ask questions, share documents, interact with whiteboards, ask live questions and communicate with your trainer and peers.

Access the best pool of trainers, wherever you are.

POPULAR

Online Self-paced

Learn at your own pace. Our expert trainers are on hand to help you with anything.

All of our courses come with a standard 90 days access which can be upgraded if need be.

Our e-learning platform is available on all devices.

In-house

Our courses can be adapted to meet your individual project or business requirements. In-house training gives your team a great opportunity to come together, bond and discuss, which may be limited in a standard classroom setting.

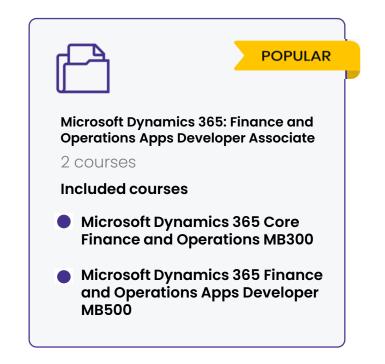
Classroom

Some of our courses are available in our classrooms. All of our trainers are highly qualified, having 10+ years of experience.

We use the highest quality learning facilities to make sure your experience is as comfortable as possible.

Our Packages

Below is the package containing multiple courses delivered as Online Instructor-led and Online self-paced



theknowledgeacademy

Have Questions for Us?

We are a leading training provider of highly-demanded learning programmes, and we always look forward to guiding learners in the right direction. If you have questions or need assistance while booking your training, you can access our 24/7 support using our email address and phone numbers. Our specialised learning advisors will get in touch and help you with your queries and needs by providing the correct information and guidance.

