MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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ADVANCED DEVELOPMENT IN MICROSOFT DYNAMICS 365 FINANCE & OPERATIONS

"Enhancing ERP Customization, Integration, and Performance with Advanced X++ and Extension Techniques"

Schedule

Date	Venue	Fees (Face-to-Face)
27 – 31 Jul 2026	Dubai, UAE	USD 3495 per delegate

Introduction

Microsoft Dynamics 365 Finance & Operations (D365 F&O) is a powerful enterprise solution enabling organizations to unify finance, supply chain, manufacturing, and HR operations. As businesses customize and extend D365 F&O to fit their unique needs, skilled developers play a critical role in ensuring system performance, compliance, and scalability.

This advanced course focuses on development best practices in D365 F&O, including X++ programming, extensions, event handling, performance tuning, and integrations. Participants will gain deep technical expertise through practical labs and real-life scenarios that prepare them for complex customization, report development, and DevOps deployment.

Objectives

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

- Develop, customize, and extend Dynamics 365 F&O using X++ and the Extension Framework
- Implement data entities, integrations, and custom workflows
- Apply best practices for performance tuning and debugging
- Work with Application Lifecycle Management (ALM) and DevOps in D365 F&O
- Design custom reports using SSRS and Power Platform integration

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Why Attend

- Master the latest tools and techniques for developing within D365 F&O
- Deliver optimized, upgrade-safe customizations using the Extension model
- Increase system efficiency with debugging and performance tools
- Improve integration with external systems via OData, REST APIs, and data entities
- Enhance user experience and functionality across finance and operations modules

Target Audience

This program is designed for:

- D365 F&O developers and technical consultants
- Solution architects and ERP implementation teams
- Software engineers involved in ERP customization
- Technical leads responsible for ALM and DevOps in Microsoft ecosystems
- IT professionals transitioning to Dynamics 365 development

Individual Benefits

Key competencies that will be developed include:

- Advanced X++ programming and extension modeling
- Customization of forms, tables, classes, and workflows
- SSRS report design and workspace creation
- System integration and secure web service consumption
- ALM deployment using Azure DevOps pipelines and environments

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Faster and more reliable ERP development cycles
- Better alignment of ERP customization with business goals
- Reduced system downtime and better issue resolution
- Increased reusability and maintainability of development assets
- Enhanced security and compliance across ERP extensions

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Frameworks, system architecture, and D365 development patterns
- Case Studies – Real-world ERP development projects and customizations
- Workshops – Hands-on development using Visual Studio and Lifecycle Services (LCS)
- Peer Exchange – Collaborative troubleshooting and project simulations
- Tools – Visual Studio, Azure DevOps, D365 Sandbox environments, LCS

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Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Framework and Environment Setup

- Module 1: Overview of D365 F&O Architecture (07:30 – 09:30) • Layers, models, packages, metadata structure
- Module 2: Development Environment and ALM Setup (09:45 – 11:15) • Visual Studio configuration, model creation, LCS access
- Module 3: Introduction to Extensions and Overlayering (11:30 – 01:00) • Customization guidelines, event handlers, form extensions
- Module 4: Workshop – Build Your First Extension (02:00 – 03:30) • Simple table and form customization

Day 2: Data and Business Logic Customization

- Module 1: Working with Tables, Classes, and Data Entities (07:30 – 09:30) • Extending tables, computed columns, and inheritance
- Module 2: Business Logic with X++ (09:45 – 11:15) • Event subscriptions, custom logic injection
- Module 3: Integrating Custom Workflows (11:30 – 01:00) • Workflow types, approvals, and submission events
- Module 4: Workshop – Custom Workflow and Class Extensions (02:00 – 03:30) • Design and deploy a business workflow

Day 3: Reporting and User Interface

- Module 1: SSRS Report Development in D365 F&O (07:30 – 09:30) • Query objects, RDP classes, report parameters
- Module 2: Form Customization and UX Best Practices (09:45 – 11:15) • New forms, display methods, user roles
- Module 3: Workspaces and Tiles Customization (11:30 – 01:00) • Navigation, workspace layout, KPI integration
- Module 4: Workshop – Create a Custom Report and Workspace (02:00 – 03:30) • Develop and publish SSRS report with dashboard integration

Day 4: Integration and Data Management

- Module 1: Data Management Framework and Entities (07:30 – 09:30) • Data import/export projects, staging tables
- Module 2: OData, Batch Jobs, and REST APIs (09:45 – 11:15) • Service creation, security roles, Azure integration
- Module 3: Debugging and Performance Monitoring (11:30 – 01:00) • Trace parser, performance analyzer, exception handling
- Module 4: Workshop – Build and Test an API Integration (02:00 – 03:30) • Design and validate a REST endpoint

Day 5: DevOps and Lifecycle Management

- Module 1: Version Control and Branching with Azure DevOps (07:30 – 09:30) • Repositories, branching, code merge best practices
- Module 2: Build, Test, and Deploy with LCS (09:45 – 11:15) • Environment management, package deployment
- Module 3: Final Capstone Project – Full Customization Cycle (11:30 – 01:00) • Plan, develop, and deploy an integrated solution
- Module 4: Review and Certification (02:00 – 03:30) • Participant presentations and feedback

Certification

Participants will receive a Certificate of Completion in Advanced Development in Microsoft Dynamics 365 Finance & Operations, confirming their technical ability to develop, integrate, and deploy advanced customizations and enhancements within the D365 F&O platform.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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