

# Dynamics 365 for Finance and Operations: Development Foundations

## WorkshopPLUS

**Duration:** 3 Day | **Focus Area:** Business/IT Alignment **Level:** 200

The Dynamics 365 for Finance and Operations Development Foundations WorkshopPLUS is a three-day course designed for IT professionals and developers who are responsible for designing and developing customizations to extend the base functionality of the service.

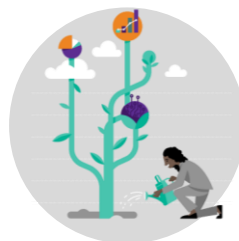
In this course, you will learn the foundational concepts, tools and techniques necessary to augment the standard functionality of Dynamics 365 for Finance and Operations using Visual Studio in the development environment. These include data modeling, elements of UI development, X++ language, database access and creating basic extensions.

### OUTCOMES



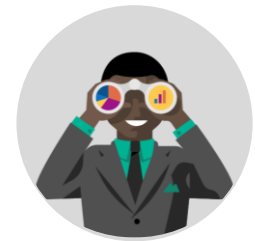
#### Skills

Gain an understanding of the tools and techniques used to customize the base functionality of Dynamics 365 for Finance and Operations



#### Best Practices

Learn the best practices in data modeling and programming in Visual Studio for Dynamics 365 for Finance and Operations



#### Way Forward

Use your training to start designing and implementing customizations. Further your development skills with the Advanced Development workshop.

### PREREQUISITES

Participants that have solution design and development experience will get the most value out the training.



#### Recommended Qualifications

- Familiarity with Dynamics 365 for Finance and Operations
- An understanding of relational databases, preferably SQL Server
- Development Experience in an Object-oriented Programming language, preferably on the .Net platform.



#### Hardware Requirements

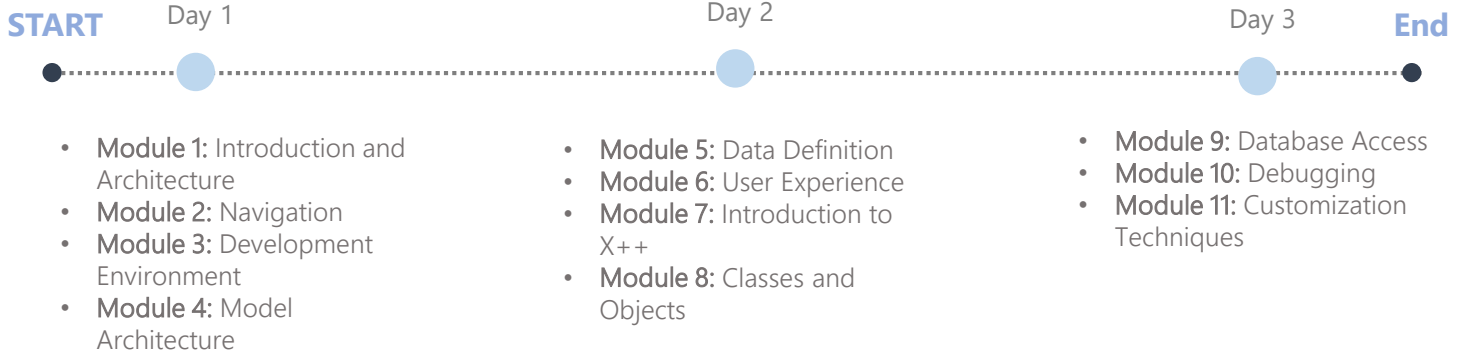
- An Intel Core-i5-based PC
- 8 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Internet access with at least 1 Mbps bandwidth per student

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## AGENDA

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Duration: 3 days



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## SYLLABUS

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### Module 1: Introduction and Architecture

- Application Architecture & Features
- Cloud Ecosystem
- Lifecycle Services

### Module 2: Navigation

- Navigation Tools and Options
- Searching and Filtering
- Personalization
- Task Recorder

### Module 3: Development Environment

- Platform
- Development environment
- Tools
- Development projects

### Module 4: Model Architecture

- Layers, Models
- Projects, Packages
- Application Stack

### Module 5: Data Definition

- Data Model
- Tables, Views
- Maps
- Data Types

### Module 6: User Experience

- Form Data Source
- Form Design
- Labels
- Menus, Tiles and Menu items
- Workspaces

### Module 7: Introduction to X++

- Compiler
- Variables
- Operators
- Control statements
- Exception Handling

### Module 8: Classes and Objects

- Inheritance
- Casting expressions
- Methods
- Interface

### Module 9: Database Access

- Accessing Data
- Select Statement and iterative access
- Transactional Integrity
- Query Object Model

### Module 10: Debugging

- Debugging techniques
- Debugging in production environment
- Troubleshooting

### Module 11: Customization Techniques

- Extensions
- Data Types
- Data Model
- User experience

**NEXT STEPS:** If you are interested in this workshop, or any of the related workshops for your organization, please contact your Microsoft Account Representative.