

KOENIG SOLUTIONS • COURSE OUTLINE

Microsoft Dynamics 365 Finance and Operations Developer

Learn to develop and customize Microsoft Dynamics 365 Finance and Operations using data models, X++, user interfaces, security, workflows and extensions.

6

MODULES

70

TOPICS

COURSE OVERVIEW

This course offers an in-depth exploration of Microsoft Dynamics 365 Finance and Operations, focusing on development and customization. Participants will gain foundational knowledge of Dynamics 365 architecture, data modeling, and the X++ programming language. Additionally, the course covers user interface design, security configurations, workflows, and extension methods, providing the skills necessary to develop and extend the functionalities within Dynamics 365 Finance and Operations.

WHO THIS COURSE IS FOR

This course is tailored for developers, technical consultants, and IT professionals involved in customizing and extending Microsoft Dynamics 365 Finance and Operations

It is also suitable for those aspiring to deepen their technical knowledge and skills in developing within the Dynamics 365 environment

PREREQUISITES

- A basic understanding of ERP systems and programming concepts.
- Familiarity with object-oriented programming is advantageous.
- Prior experience with Microsoft technologies is recommended but not required.

LEARNING OBJECTIVES

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

- Understand the architecture and components of Microsoft Dynamics 365 Finance and Operations
- Navigate and customize the Dynamics 365 user interface
- Develop and manage data models within Dynamics 365
- Utilize the X++ programming language for customization and development
- Configure security roles, workflows, and user permissions effectively
- Extend Dynamics 365 functionalities through various extension methods

6 Modules, 70 Topics

01

Introduction

TOPICS

- Introduction to ERP
- ERP and Dynamics AX
- Dynamics AX Versions
- On-premises vs. Cloud, Pros and Cons
- Introduction to Azure
- Creating users
- Introduction to LCS
- Downloading and Setting up VM
- Introduction to D365
- Architecture of D365
- Models and Packages in D365

02

Data Model

TOPICS

- Primitive Data Types
- Extended Data Types
- Base Enumeration
- Tables
- Tables - Relations
- Tables - Delete Actions
- Tables - Methods
- AOT Queries
- Views
- Data Entities
- Composite Data Entities
- Aggregated Data Entities
- Data Migration
- Maps
- Table Collections

03

The X++ Programming Language

TOPICS

- Introduction
- Variables and Data Types
- Conditional Statements
- Loops
- Classes
- Inheritance
- Polymorphism
- Select Statements in D365
- Using AOT and X++ in V1

05

User Interface

TOPICS

- Forms
- Form Controls
- Design Patterns with Examples
- Tiles
- Menus
- Menu Items
- SSRS Reports
- MVC Architecture
- Auto Design vs Precision Design
- Power BI Reports
- Labels and Label Files

06

Security and Workflows

TOPICS

- Introduction
- Roles
- Duties
- Privileges
- Extensible Data Security
- Assigning Roles to Users
- Managing Users
- The State Machine Concept
- Working with State Machine in D365
- Creating and Authorizing a Workflow
- Workflow Categories
- Workflow Approvals
- Workflow Tasks
- Workflow Types
- Configuration Keys

07

Extensions

TOPICS

- Base Enumeration Extensions
- Extended Data Type Extensions
- Table Extensions
- View Extensions
- Query Extensions
- Data Entity Extensions
- Class Extensions
- Form Extensions
- Menu Extensions

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.

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Live Online Classes (ILO)

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