

KOENIG SOLUTIONS • COURSE OUTLINE

Advanced Development in Microsoft Dynamics 365 Finance and Operations

12

MODULES

68

TOPICS

22

HANDS-ON LABS

LEARNING OBJECTIVES

- Apply overlaying and extension models to customise the application
- Create and run test cases using the unit test framework
- Implement advanced classes such as SysOperation and Runbase frameworks
- Build queries, tables and views for advanced data manipulation
- Develop advanced forms with data sources and form controls
- Configure number sequences and extensible data security policies
- Author workflows including approvals and event handlers
- Build data entities and aggregate entities for analytics

12 Modules, 68 Topics

01

Lab

Extensibility

TOPICS

Introduction · Overlaying · Extensions · Extension models and packages · Development tools support

02

Lab

Unit Test Framework

TOPICS

Introduction · Creating Test Cases · Adding methods to Test Cases · Running Test Cases

03

3 Labs

Advance Classes

TOPICS

Introduction · Collection Classes · Application Object Classes · SysOperation Framework · Runbase Framework · Args Object

04

2 Labs

Advance Data Manipulation

TOPICS

Introduction · Querying · Caching and Locking · Tables · Views

05

4 Labs

Advance Forms

TOPICS

Introduction · Architecture · Methods · Data Sources · Design · Handles to the Objects in a Form · Form Controls · Additional Controls

06

Lab

Number Sequence

TOPICS

Introduction · Overview · Supported Scopes · Set Up and Administration · Set up Number Sequences

07

Lab

Extensible Data Security

TOPICS

Introduction · Overview · Concepts

08

Workflow

TOPICS

- Introduction
- Workflow Configuration
- Create a Workflow Category
- Create a Query
- Create a Workflow Type
- Enable Workflow On a Form
- Create a Workflow Approval
- Create Event Handlers
- Author a Workflow

09

4 Labs

Data Entities

TOPICS

Introduction · Data Entities · Building a Data Entity · Using a Data Entity · Composite Data Entity · Developing Composite Data Entity · Set Based Data Entities · Developing a Set Based Entity

10

3 Labs

Analytics

TOPICS

Introduction · Aggregate Measurements · Aggregate Dimension · Key Performance Indicator · Aggregate Data Entities

11

Lab

Data Management Platform

TOPICS

Introduction · Data Management Platform · Basic Import and Export · Working with Data Management Platform · Asynchronous Recurring Integration

12

Lab

Services

TOPICS

Introduction · Services Overview · OData Services · Custom and Metadata Services · Authentication

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Extensibility	Lab 1.1: Add new field and class to existing form
02	Unit Test Framework	Lab 2.1: Create a Test Case
03	Advance Classes	■ Lab 3.1: Create a Map ■ Lab 3.2: Create Runbase Class ■ Lab 3.3: Using Args Object
04	Advance Data Manipulation	■ Lab 4.1: Build a Query in X++ ■ Lab 4.2: Create and Copy Data between Temporary Tables Using X++

#	MODULE	ACTIVITY
05	Advance Forms	■ Lab 5.1: Create a form ■ Lab 5.2: Use Unbound Controls ■ Lab 5.3: Initialize a Form ■ Lab 5.4: Add an Image control
06	Number Sequence	Lab 6.1: Implement a new Number Sequence
07	Extensible Data Security	Lab 7.1: Creating Security Policy
09	Data Entities	■ Lab 9.1: Create a Data Entity ■ Lab 9.2: Access Data using X++ ■ Lab 9.3: Create a Composite Entity ■ Lab 9.4: Create a Set Based Data Entity
10	Analytics	■ Lab 10.1: Create an Aggregate Measurement and Data Entity ■ Lab 10.2: Enable OData Access for Aggregate Data Entity ■ Lab 10.3: Creating and using key performance Indicators
11	Data Management Platform	Lab 11.1: Basic Import and Export Using the Data Management Platform
12	Services	Lab 12.1: Using OData Services

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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