Using AL in Microsoft Dynamics 365 Business Central

Module 1: Modern development environment

Getting started with visual studio code – overview
Introduction to visual studio code
Installing al support in visual studio code
The logical database and its objects
Extensions
Creating a new extension
Json configuration files
Build and deploy an extension
Using code snippets
Properties and triggers
Object properties and triggers
Git & team development features – overview

Lab- Creating and Running an AL Extension

Module 02: Tables

What is a Table
Table Properties
Field Properties
Table Relations
Regular Table Relations
Filtered and Conditional Table Relations
Keys
Field Group: DropDown and Brick
Calculated Fields
Creating a Table
Using Code Snippets
Setting Properties, Keys and Table Relations

Lab-Create a Table

Module 03: Table Extension

What is a Table Extension?
Table Extension Properties
Creating a Table Extension
Using Code Snippets

Lab-Create a Table Extension

Module 04: Pages

What Is a Page?
PageTypes
Page Description
Page Properties
What Are Controls?
Control Areas
Control Types and Subtypes
Group and Repeater, Cue Group and Fixed Layout
Linking Pages and Page Parts
Creating Pages
Control Properties
What are Actions?
Page Actions and Role Center Actions
Action Properties

Lab-Create a Card Page
Lab-Create a List Page

Module 05: Page Extensions

What is a Page Extension?
Page Extension Properties
Creating a Page Extension
Using Code Snippets

Lab-Create a Page Extension

Module 06: Entitlements and permission sets

Get started with entitlements and permissions
Create entitlements and permission sets

Override entitlements with inherent permissions

Module 07: Basics of AL Programming

Language
Assignment And Punctions
Expressions (Operators)
Options
Enums & Enums Extension
Work with collections
Frequently Used AL Procedures
Conditional Statements
Repetitive Statements
Error Handling
Publish and subscribe to events

Lab-Basics AL Operator

Module 08: Built-in Functions in Business Central

String functions
Numeric
Round
Abs and Power functions
Array functions
List functions
System functions

Module 09: Debugging in Business Central

Dialog function debugging techniques
Debugging with MESSAGE and CONFIRM
Debugging with DIALOG
Debugging with text output
Debugging with ERROR
The Business Central debugger
Activating the debugger
The debugger windows
SnapShot Debugging

Lab-Debugging in Visual Studio Code

Module 10: Files

Working with the File Object
Working with the TempBlob Object
Streaming
File Management - Reading and Writing
Files
File Management - Working with Streams and the Tempblob Table

Lab-Reading and Writing Files

Module 11: XMLPorts

What is an XMLPort?
XMLPort Properties and Triggers
Designing XMLPorts
Creating XMLPorts
Working with Plain Text
Using XMLPorts in AL Code

Lab- Create an XMLPort to Export XML Data

Lab- Create an XMLport to Export Variable Text

Module 12: Queries

Query Design
Aggregating and Ordering Data and Date Methods
Creating a Query Example
Accessing Queries from AL
Advanced Query Concepts

Lab- Using a Query for a Chart
Lab- Using Queries in AL

Module 13: Reporting

Report Components
Report Design Process
Design the Data Model
Report and Data Item Properties
data model of a report
Create an RDL Layout Report Overview
Create an RDL Layout Report
Grouping and Totaling Overview
Report Triggers and Functions
Report triggers flow
Processing Only Overview
Word Report Layouts Overview

Lab- Creating a Basic Report
Lab- Creating a Processing Only Report

Module 14: Power BI

Enabling Your Business Data for Power BI Overview
Using Microsoft Dynamics 365 Business Central as a Power BI Data

Lab- Use Microsoft Dynamics 365 Business Central as a Power BI Data Source