Microsoft Dynamics 365 Business Central Technical Training

(8 hours/4 days)

Course Description:
This course provides in-depth technical knowledge of customizing and developing within the Microsoft Dynamics 365 Business Central environment. Attendees will learn how to configure and manage the development environment, create AL code extensions, and work with tables, pages, queries, and reports. The course also covers advanced topics such as API integration, XMLPorts, and implementing user interface customizations. By the end of the course, participants will be able to effectively manage customizations and integrate external systems with Business Central.

Audience Profile:
This course is intended for developers, technical consultants, and IT professionals who want to gain technical expertise in customizing and extending Microsoft Dynamics 365 Business Central. Participants should have a basic understanding of Business Central and programming concepts.

Prerequisites:

- Basic understanding of Business Central functionality

- Familiarity with programming concepts and AL (Application Language)

- Basic knowledge of databases and JSON configuration files

Course Objectives:
Upon completing this course, participants will be able to:

- Configure and manage the development environment in Business Central

- Develop and manage AL extensions for customizing Business Central

- Work with tables, pages, queries, XMLPorts, and reporting features

- Implement APIs and integrate Business Central with external systems

- Customize the user interface and implement onboarding techniques

- Understand and apply development standards and patterns in Business Central

Table of Contents:

Day 1

- **Module 1**: Introduction to Development Environment

    o   Overview of Business Central development environment

    o   Installation and configuration

    o   Managing JSON configuration files

    o   Working with multiple AL extensions in one workspace

- **Module 2**: Administration

    o   Managing Business Central

    o   Application security

    o   Creating and assigning permission sets

- **Module 3**: Tables and Table Extensions

    o   Table and field properties

    o   Table relations: Regular, Filtered, Conditional

    o   Calculated fields and field groups

    o   Table extensions, properties, and triggers

    o   Keys

- **Module 4**: Pages and Page Extensions

    o   Page properties, types, and control areas

    o   Linking pages and page parts

    o   Developing role center pages

- **Module 5**: Basics of AL Programming

    o   Variables, data types, options, and enums

    o   Code units, procedures, collections, and frequently used AL procedures

    o   Conditional and repetitive statements, debugging

    o   Labs: Creating tables, pages, code units, and defining custom procedures

Day 2

- **Module 6**: Queries

- Query design, data aggregation, and ordering
- Advanced query concepts
- Accessing queries from AL
- Labs: Creating and implementing queries

- **Module 7**: Built-in Functions in Business Central
  - String, numeric, array, list, and system functions
  - Labs: Using built-in functions

- **Module 8**: XMLPorts
  - XMLPort properties, triggers, and design
  - Working with plain text
  - Using XMLPorts in AL code
  - Labs: Designing XMLPorts, importing/exporting data

Day 3

- **Module 9**: Reporting
  - Report components and design process
  - Creating RDL, Word, and Excel layout reports
  - Report triggers and data flow
  - Labs: Creating reports and ProcessOnly reports

- **Module 10**: Integration and APIs
  - Implementing APIs and integration with Power Platform
  - Postman tool API testing and Azure integration
  - Accessing REST services from Business Central
  - Source control and GIT
  - Case Study: Implementing Business Central in a retail company
  - Labs: Creating custom API pages, queries, and using Postman

Day 4

- **Module 11**: Customizing UI Experience and Implementing Onboarding
  - Customizing the UI, creating profiles and views
  - Creating teaching tips and in-app tours

- o Labs: Creating profiles and views
- **Module 12**: Development Standards
  - o Data process model implementation
  - o Functional table types and characteristics
  - o Document and master data standards
- **Final Session**: Doubt solving and discussions