

# MB-820: Microsoft Dynamics 365 Business Central Developer – Course Plan

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## Course Overview

This 40-hour course is designed to prepare developers for the MB-820 certification. It focuses on developing, extending, and customizing Microsoft Dynamics 365 Business Central using AL language, Visual Studio Code, and modern development practices aligned with MS Learn.

## Target Audience

- Business Central Developers
- Dynamics NAV Developers transitioning to BC
- Technical Consultants
- Software Engineers working with ERP solutions

## Course Duration

Total Duration: 40 Hours (10 Days | 4 Hours per Day)

## Module 1: Introduction to Business Central Development (4 Hours)

- Overview of Dynamics 365 Business Central
- Business Central architecture
- Development tools overview
- Introduction to AL language
- Business Central environments

## Module 2: Development Environment Setup (4 Hours)

- Visual Studio Code setup
- AL extension installation
- Connecting to Business Central sandbox
- Project structure
- Publishing and debugging extensions

## Module 3: AL Language Fundamentals (4 Hours)

- AL objects overview
- Tables, Pages, Reports
- Codeunits and Queries
- Data types and variables
- Triggers and events

#### **Module 4: Data Model & Tables (4 Hours)**

- Table design principles
- Table relations
- Keys and indexes
- FlowFields and FlowFilters
- Data classification

#### **Module 5: Pages & UI Development (4 Hours)**

- Page types
- Actions and navigation
- FactBoxes
- Page customization
- Role Center overview

#### **Module 6: Business Logic & Events (4 Hours)**

- Writing business logic
- Event publishers and subscribers
- Error handling
- Validations
- Transactions and commits

#### **Module 7: Reports & Documents (4 Hours)**

- Report objects
- RDLC layout
- Word layouts
- Dataset design
- Printing and emailing reports

#### **Module 8: Integration & APIs (4 Hours)**

- Web services overview
- APIs and OData
- SOAP vs REST
- Authentication methods
- Integrating external applications

#### **Module 9: Testing, Security & Performance (4 Hours)**

- Automated testing framework
- Permission sets
- User security
- Performance tuning
- Best practices

## Module 10: Deployment, Upgrade & Exam Prep (4 Hours)

- Extension deployment
- AppSource publishing
- Upgrading extensions
- Version control basics
- MB-820 exam overview and practice questions

### Hands-on Labs

- Create AL extension
- Customize tables and pages
- Implement events
- Build reports
- Publish and debug extension

### Certification Details

Exam Code: MB-820

Exam Duration: 120 minutes

Question Types: Case studies, MCQs

Role: Business Central Developer

### Outcome

After completing this course, learners will be able to design, develop, test, and deploy Business Central extensions using best development practices.