

## Plan de formation

### DEV I (Beginners) in Microsoft Dynamics 365 – Business Central

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#### Objectif

This five-day instructor-led course focuses on the capabilities and features of the Microsoft Dynamics 365 Development Environment. It explains the basic development concepts in Microsoft Dynamics 365, and provides an overview of the C/AL programming language and various object types. It also introduces new development capabilities, including reporting, queries, and .NET Framework interoperability.

#### Durée

5 jours (35 heures)

#### Prérequis

Before attending this course, students must have:

- Knowledge of Microsoft Dynamics 365.
- Basic knowledge of programming concepts and programming languages.

#### Profil du stagiaire

This course is intended for a partner that sells and implements the C/SIDE Introduction module to customers. The typical partner has an ERP background.

#### Plan de formation

##### Module 1: Microsoft Dynamics 365 Development Environment

- Basic Objects in Microsoft Dynamics 365
- Object Designer Fundamentals
- Team Development Features
- The Physical and Logical Database

##### Module 2: Tables

- Tables Fundamentals
- Primary and Secondary Keys
- Table Relationships
- Special Table Fields

##### Module 3: Pages

- Page Fundamentals
- Page Designer
- Page Types and Characteristics

#### Module 4: Introduction to C/AL Programming

- C/AL Programming
- Intrinsic Data Types
- Identifiers, Variables and Syntax
- Variable Scope

#### Module 5: Assignment Statements and Expressions

- Assignment Statements
- The Syntax of Statements
- Automatic Type Conversions
- Use Assignment Statements and the Symbol Menu
- Expressions, Evaluations, Terms, and Operators
- The String Operator
- Function Calls in Expressions
- Numeric Expressions
- Arithmetic Operators
- Relational and Logical Expressions
- Relational Expressions for Comparison
- Relational Expressions for Set Inclusion
- Logical Expressions

#### Module 6: C/AL Statements

- Conditional Statement and Boolean Expressions
- The IF Statement
- The EXIT Statement
- The CASE Statement
- Compound Statements and Comments
- The Syntax of Compound Statements
- Compound Statements by Using Nested IF Statements
- The Syntax of Comments
- Practice: Nested IF
- Arrays
- The Syntax of Arrays
- The Power of Arrays
- Strings as Arrays of Characters
- Repetitive Statements
- The WITH Statement

## Module 7: C/AL Functions

- Functions and Parameters
- Review Built-in Functions
- Data Access Functions
- Sorting and Filtering Functions
- Data Manipulation Functions
- Working with Fields
- Using Interaction Functions
- Other Common C/AL Functions
- Create Custom Functions
- Local Functions, Variables and the EXIT Statement

## Module 8: Reports

- Report Fundamentals
- Report Design Process
- Design the Data Model
- Create a Data Model
- Design the Layout
- The Request Page Designer
- Design the Request Options Page
- Grouping and Totaling
- Add Advanced Features

## Module 9: XMLports

- XMLport Fundamentals
- Design XMLports
- Importing and Exporting Plain Text
- Using XMLports in C/AL Code

## Module 10: Codeunits

- Codeunit Fundamentals
- Design Codeunits
- Use Codeunits
- SMTP

## Module 11: Microsoft .NET Framework Interoperability

- The DotNetDataType
- Datatype Mapping and Assignment
- .NET Framework Interoperability C/AL functions
- Streaming

## Module 12: Queries

- Query Design
- Accessing Queries from C/AL
- Advanced Query Concepts