

# Course 80303A:

## Development I in Microsoft Dynamics AX 2012

### About this Course

This two-day instructor-led course provides students with an overview of the basic technical features of Microsoft Dynamics AX 2012. This course does not contain coding.

### Audience Profile

The intended audience is experienced systems consultants typically working for a Microsoft Dynamics partner that is selling, consulting, implementing, and supporting Microsoft Dynamics AX 2012.

### At Course Completion

After completing this course, students will be able to:

- Describe the basic features of Microsoft Dynamics AX 2012.
- Review basic form navigation.
- Review the architecture of Microsoft Dynamics AX 2012.
- Describe the options for making development changes in Microsoft Dynamics AX 2012.
- Describe the theory of Model Driven Architecture in Microsoft Dynamics AX 2012.
- Review licensing and configuration.
- Explain the MorphX development environment and the Application Object Tree.
- Design tables using MorphX.
- Describe the different data types within Microsoft Dynamics AX.
- Create a new table.
- Learn how to create and modify indexes using MorphX.
- Describe relations on Microsoft Dynamics AX tables.
- Learn how to create and modify Enumerated data types.
- Learn how to create and modify views.
- Design and build Forms in Microsoft Dynamics AX.
- Join two data sources on a form.
- Create customized menus and menu items.
- Create a form using form templates.
- Know the components of a list page.
- Create a new FactBox.
- Describe the elements of Role Based Security in Microsoft Dynamics AX.
- Setup a new user.
- Assign roles to a user.
- Assign a security role to a user.
- Edit duties assigned to a role.
- Edit privileges assigned to a duty.
- Edit permissions assigned to a privilege.
- Search for roles with access to a menu item.

### Course OutlineModule 1: Architecture

This module describes the architecture of Microsoft Dynamics AX 2012. Microsoft Dynamics AX is a completely integrated solution and is web-enabled and supports Microsoft SQL Server. With customizable source code, the solution can be modified however and whenever it is necessary.

### Lessons

- Introduction
- Features of Microsoft Dynamics AX

- Architecture
- Development Environment
- Model Driven Architecture
- Licensing and Configuration

### **Lab : Create a New Model and a Development Project**

After completing this module, students will be able to:

- Describe the basic features of Microsoft Dynamics AX 2012.
- Review basic form navigation.
- Review the architecture of Microsoft Dynamics AX 2012.
- Describe the options for making development changes in Microsoft Dynamics AX 2012.
- Describe the theory of Model Driven Architecture in Microsoft Dynamics AX 2012.
- Review licensing and configuration.

### **Module 2: Data Dictionary**

This chapter introduces the tools and procedures used to create tables, data types, and relations that are required in Microsoft Dynamics AX.

#### **Lessons**

- Introduction
- MorphX and the Application Object Tree
- Tables
- Data Types: Primitive and Extended
- Creating Tables
- Indexes
- Relations
- Base Enumerations
- Views

### **Lab : Create a New EDT Lab : Create a New Table Lab : Create a Primary Key Lab : Create a Relation Lab : Add an Enum**

After completing this module, students will be able to:

- Explain the MorphX development environment and the Application Object Tree
- Design tables using MorphX
- Describe the different data types within Microsoft Dynamics AX
- Create a new table
- Learn how to create and modify indexes using MorphX
- Describe relations on Microsoft Dynamics AX tables
- Learn how to create and modify Enumerated data types
- Learn how to create and modify views.

### **Module 3: User Interfaces**

This module discusses how to develop the user interface without having to write any code.

Forms are created so that the end-user can enter and view data. To make navigation easier for the end-user, menus and menu items will be created.

#### **Lessons**

- Introduction
- Forms
- Joining Data Sources
- Menu Items
- Form Templates
- List Pages
- FactBoxes

**Lab : Create a FormLab : Create a Form from a Template**

After completing this module, students will be able to:

- Design and build Forms in Microsoft Dynamics AX.
- Join two data sources on a form.
- Create customized menus and menu items.
- Create a form using form templates.
- Know the components of a list page.
- Create a new FactBox.

**Module 4: Security** This module describes the elements of Role Based Security in Microsoft Dynamics AX 2012. **Lessons**

- Introduction
- Definitions
- Set Up a New User
- Assign a User to a Role
- Change Duties on a Role
- Change Privileges on a Duty
- Assign a Permission to a Privilege
- Investigate Access

**Lab : Create a New Security Role**

After completing this module, students will be able to:

- Describe the elements of Role Based Security in Microsoft Dynamics AX.
- Setup a new user.
- Assign roles to a user.
- Assign a security role to a user.
- Edit duties assigned to a role.
- Edit privileges assigned to a duty.
- Edit permissions assigned to a privilege.
- Search for roles with access to a menu item.