



Emporis Academy Private Limited



Learning Solutions
Microsoft Business Solutions

Course Syllabus

Development III in Microsoft Dynamics AX 2009

(Elements of this syllabus are subject to change.)

Key Data:

Course number: 80013

Instructor-Led Training (lecture and labs)

Student Materials: Microsoft Official Curriculum (MOC)

Certification Exam: MB6-821 – MorphX Development Solution Exam AX 2009

Introduction:

This training introduces to advanced development in Microsoft Dynamics AX 2009 using X++ and development tools. This course begins with learning the development environment and tools including application architecture, code security, creating help files and transferring modifications between applications. The student will then learn more about Fetch of data from the database, Classes, Forms and Reports. The exercises included in this course will focus on typical additions to and modifications of the standard application. This course is meant to be a more advanced course covering practical development in Microsoft Dynamics AX.

Prerequisites

Before attending this course, students must have:

- Completed Microsoft Dynamics AX2009 Development I
- Completed Microsoft Dynamics AX2009 Development II

Chapter 1: Development Environment and Tools

This chapter gives a comprehensive foundation for the use of the development environment and integrated tools.

Sections
<ul style="list-style-type: none">• Cross Reference• Trustworthy Computing (TwC)• Help System• Development Environment

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Chapter 2: Working with Data

This chapter focuses on fetching data from the database. The goal is to make optimal communication with the database with respect to performance. In addition, the student will have knowledge in why and how the use of temporary tables.

Sections
<ul style="list-style-type: none">• While Select• Query• Caching• Locking• Temporary Tables• InitFrom• Parm Tables• Data Integration

Chapter 3: Classes

This module shows how to use and modify some standard application classes and methods to utilize the existing code for new modifications

Sections
<ul style="list-style-type: none">• Collection Classes• Application Object Classes• Application Substituted Kernel Classes• RunBase Framework• Args Object

Chapter 4: Forms

This chapter discusses how to create and modify advanced forms.

Sections
<ul style="list-style-type: none">• Architecture• Data Sources• Form Controls• Form Methods• Placement of code• Additional Controls• Form Types

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Chapter 5: Reports

This module shows how to fetch data into reports based on queries or X++ code and covers some advanced functions, for example aggregating and additional report sections.

Sections
<ul style="list-style-type: none">• Architecture• Data Sources• Design• Methods

Development IV in Microsoft Dynamics® AX 2009

Course number: 80014

Instructor-Led Training (lecture and labs)

Student Materials: Microsoft Official Curriculum (MOC)

Certification Exam: MB6-821 – MorphX Development Solution Exam AX 2009

Introduction: This training gives you advanced X++ development techniques and examines how the Microsoft Dynamics AX application is structured. It covers both technical and application specific areas of Microsoft Dynamics AX. The technical section ensures that the student has obtained all necessary technical knowledge before progressing to the application specific section. It only covers areas that have not been included in Microsoft Dynamics AX Development classes I, II & III. The application specific section aims at helping the student understand the more complicated processes within Microsoft Dynamics AX. The training material is useful as a reference when a refresher of the process is needed. It covers six key Microsoft Dynamics AX modules; Ledger, Trade, Inventory, Production, Project and Workflow, and goes into detail about the technical aspects of some of the main functions within each of these modules.

Prerequisites

Before attending this course, students must have completed:

- Development I in Microsoft Dynamics® AX 2009
- Development II in Microsoft Dynamics® AX 2009
- Development III in Microsoft Dynamics® AX 2009

Chapter 1: Point-of-Sale Project

This lesson outlines the development project that will be undertaken throughout the course. As the different technical and application specific areas are taught, the POS module is developed. This chapter

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introduces the initial basic design from which the student will build the module, and the students contribute to their own final design.

Sections

- Functional Design
- Technical Design

Chapter 2: Number Sequences

Number sequences are created and used by all programmers regularly. This lesson highlights the correct way to create a new number sequence and how to use a number sequence in code. It also explores the more advanced options available.

Sections

- Assign a New Number
- Continuous Number Sequences
- Format a Number
- Number Pre-Allocation
- Clean Up Process
- Form Handler
- NumberSeqReference

Chapter 3: PrintJobSettings

Print Job Settings are used to control and retrieve settings when writing to a printer. This lesson details how to use these correctly.

Sections

- Set Print Options
- Retrieve Print Options
- Use of Pack and Unpack to Store Settings
- Use of SysPrintOptions
- Args Object

Chapter 4: Business Connector

When using the Microsoft Dynamics AX Business Connector, other applications can access Microsoft Dynamics AX as a .NET or COM object. This means that the application can gain access to the data and business logic of Microsoft Dynamics AX, which enables the use of such applications as front ends, to Microsoft Dynamics AX.

Sections

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- Business Connector Setup and Configuration
- Business Connector Architecture

Chapter 5: CLR Interoperability

This lesson shows how implement external CLR assemblies within Microsoft Dynamics AX. It also shows how to consume a web service by adding it to the AOT and calling the reference from X++ code.

Sections

- Reference CLR Assemblies in the AOT
- Adding Assemblies to the Global Assembly Cache or Client
- Leverage CLR Managed Code Within X++ Code
- InteropPermission Class
- Web service references
- Implementing a DLL

Chapter 6: Ledger

This lesson helps the student understand two methods of posting transactions to the General Ledger. Due to the many varied situations that this could occur, there are a number of ways to approach this.

Sections

- LedgerVoucher
- LedgerJournal

Chapter 7: Trade

The most common area for modifications in Microsoft Dynamics AX is the sales and purchase updates. This lesson explores the FormLetter constructs, and takes the students through the code. There are also a number of journals associated with these modules and the are also be discussed.

Sections

- TableType and LineType
- Post and Print Document Updates
- Posting Transactions
- Settlement
- Trade Agreement

Chapter 8: Inventory

This lesson explores both ways in which to post inventory transactions, and also how to manipulate inventory dimension during both posting and when retrieving data. Inventory dimension are discussed in detail and once the student has seen examples of how to use them, they will understand the concept easily.

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Sections

- Inventory Journals
- Inventory Dimensions
- InventSum
- InventMovement
- InventUpdate

Chapter 9: Production

This lesson introduces the student to the workings of the production module. The update of production order status is introduced as well as the requirement calculation

Sections

- ProdMulti
- ProdStatusType
- ProdUpd
- Scheduling

Chapter 10: Project Accounting

This lesson introduces the project module and some of the basic constructs within it. The student will learn to create the different types of journals, how invoice proposals are created and how invoices are posted..

Sections

- Design
- Posting Transactions
- Invoice Proposal
- Invoice

Chapter 11: Workflow

This lesson details all the processes involved in creating a configuring a new workflow. The lesson takes the student step by step through the processes with the result being a fully functioning workflow that could be used in a real-life implementation.

Sections

- Workflow Installation
- Create a Workflow Category
- Create a Workflow Template
- Create a Workflow Document
- Create a Workflow Approval
- Enable Workflow on a Form
- Create Event Handlers
- Configure a Workflow
- Code Walkthrough: Submitting a workflow
- Code Walkthrough: Workflow Processor

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