80312 Development III in Microsoft Dynamics AX 2012

?The Development III training period puts into application the techniques taught and learn in in Development I in Microsoft Dynamics® AX 2012 and Development II in Microsoft Dynamics® AX 2012 courses. This three-day course will also introduce participants to more advanced features of X++ and MorphX and encourages the deployment of the Testing Framework to build for more reliable coding.

Completion of this training course will enable candidates in:

- Creating a test case, adding methods to a test case & run a test case.

- Building a test project and suite & isolate test cases appropriately.

- Explaining the MorphX development environment and the Application Object Tree

- Programming optimal database access using a "while select" statement & queries.

- Describing the caching mechanisms in Microsoft Dynamics AX.

- Preventing and resolving database locking.

- Using ParmId and ParmTables.

- Using collection classes to store data in X++.

- Listing which application objects control different GUI components.

- Modifying and using the Application Substituted Kernel Classes.

- Extending the RunBase framework to create new batch processes.

- Transferring information using the Args object.

- Identifying the main sections that make up a form.

- Adding data sources to a form to define what data is displayed by the form.

- Modifying form methods to the control how the form behaves when it opens and closes.

- Making runtime modification of the fetch of data.

- Exploring the Application Object Tree (AOT) from Visual Studio.

- Creating a project in Visual Studio.

- Writing .NET managed code that uses X++ objects.

- Configuring how the workflow engine is executed on a server.

- Creating a new workflow type & Apply a workflow to a form.

- Creating Event Handlers and apply them to a workflow.

- Defining what happens when the workflow is approved or denied.

Course Details

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Course Outline

Module 1: X++ Unit Test Framework

- Introduction

- Create Test Cases

- Add Methods to Test Cases

- Run Test Cases

- Build Test Projects and Suites

Lab: Create a Test Case

Module 2: Working with Data

- While Select

- Query

- Caching & Locking

- Temporary Tables

- ParmTables

- InitFrom

- Date Effectiveness

- Data Integration

- Computed Columns in Views

Lab: Fetching Data

Lab: Converting Queries

Lab: Reducing Locking

Lab: Temporary Tables

Lab: Integrating External Data

Module 3: Classes

- Introduction

- Collection Classes

- Args Object

- Application Object Classes

- Application Substituted Kernel Classes

- RunBase Framework

Lab: Create a Map

Lab: Create a Query from Code

Lab: Create a Global Method

Lab: Make a RunBase Class

Lab: Using Args

Module 4: Forms

- Architecture

- Data Sources

- Form Methods

- Form Controls

- Additional Controls

- Placement of Code

Lab: Create a Form

Lab: Use Unbound Controls

Lab: Initialize a Form

Lab: Add a Window Control

Module 5: Visual Studio Integration

- Introduction

- Application Explorer

- Managed Code Projects

- Visual Studio Projects

- Deploy Managed Code

- Visual Studio Debugging Experience for X++

Lab: Create a Managed Code Project

Lab: Create an Event Handler in Managed Code

Module 6: Workflow

- Workflow Configuration

- Create a Workflow Category

- Create a Workflow Type

- Create a Workflow Approval

- Author a Workflow

- Create a Query

- Enable Workflow on a Form

- Create Event Handlers

Lab: Add another Condition to the Submit Action

Who Should Attend

This Microsoft course 80312a is intended for experienced systems consultants who are working for a Microsoft Dynamics partner that is selling, consulting, implementing, and supporting Microsoft Dynamics AX 2012.

Pre Requisite

None

Exams

Microsoft Certified Professional (MCP) []

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