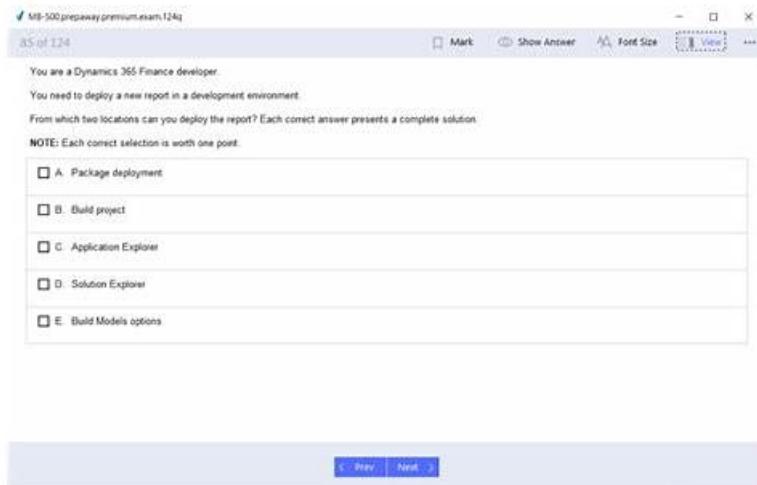


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## Who should take the MB-500: Microsoft Dynamics 365: Finance and Operations Apps Developer Exam

The **MB-500 Exam** certification is an internationally-recognized certification which help to have validation for those developers who work with Finance and Operations apps in Microsoft Dynamics 365. Candidates for this exam should be familiar with developing code by using object-oriented programming languages, analyzing and manipulating data by using Transact-SQL code, and creating and running Windows PowerShell commands and scripts.. It is good for these candidates:

- Developers

Microsoft MB-500 is a certification exam that validates the skills and expertise of finance and operations apps developers. MB-500 exam is designed for professionals who are proficient in developing, customizing, and implementing Finance and Operations apps in Microsoft Dynamics 365. MB-500 exam assesses the candidate's ability to design, develop, and implement various features and functionalities of the platform. Microsoft Dynamics 365: Finance and Operations Apps Developer certification is recognized globally, making it a valuable asset for professionals looking to advance their career in Dynamics 365 development.

## Microsoft MB-500 Exam Syllabus Topics:

Topic	Details
<b>Plan architecture and solution design (10-15%)</b>	
Identify the major components of Dynamics 365 Finance and Operations apps	<ul style="list-style-type: none"><li>- identify the Finance and Operations app modules required for a solution based on business requirements</li><li>- identify architectural differences between the cloud and on-premises versions of Finance and Operations apps</li><li>- identify components of the application</li><li>- differentiate the purposes and interrelationships between packages, projects, models, and elements</li></ul>

Design and implement a user interface	<ul style="list-style-type: none"> <li>- describe the Finance and Operations user interface layouts and components</li> <li>- design the workspaces</li> <li>- design and personalize user interface elements including grids, forms, and pages</li> <li>- configure filtering options</li> </ul>
Implement Application Lifecycle Management (ALM) and Lifecycle Services (LCS)	<ul style="list-style-type: none"> <li>- describe the capabilities of the Environment Monitoring Tool within Lifecycle Services (LCS)</li> <li>- select the purpose and appropriate uses of LCS tools and components</li> <li>- research and resolve issues by using Issue Search</li> <li>- identify activities that require asset libraries</li> <li>- prepare deployment packages and deploy packages</li> </ul>

## Apply Developer Tools (10-15%)

Customize Finance and Operations apps by using Visual Studio	<ul style="list-style-type: none"> <li>- create extension models</li> <li>- design and build projects</li> <li>- manage metadata using Application Explorer</li> <li>- synchronize data dictionary changes with the application database</li> <li>- create elements by using the Element Designer</li> </ul>
Manage source code and artifacts by using version control	<ul style="list-style-type: none"> <li>- create, check out, and check in code and artifacts</li> <li>- branch and merge code</li> <li>- compare code and resolve version conflicts</li> </ul>
Implement Finance and Operations app framework functionality	<ul style="list-style-type: none"> <li>- implement the SysOperation framework</li> <li>- implement the asynchronous framework</li> <li>- implement the workflow framework</li> <li>- implement the unit test framework</li> <li>- identify the need for and implement the Sandbox framework</li> </ul>

## Design and develop AOT Elements (20-25%)

Create forms	<ul style="list-style-type: none"> <li>- add a new form to a project and apply a pattern (template)</li> <li>- configure a data source for the form</li> <li>- add a grid and grid fields, groups, and other controls to a form</li> <li>- create and populate menu items</li> <li>- test form functionality and data connections</li> <li>- add a form extension to a project for selected standard forms</li> </ul>
Create and extend tables	<ul style="list-style-type: none"> <li>- add tables to a project</li> <li>- add table fields and field properties to a table</li> <li>- add a table extension to a project for a table</li> <li>- add fields groups, relations, delete actions, and indices</li> </ul>
Create Extended Data Types (EDT) and enumerations	<ul style="list-style-type: none"> <li>- add an EDT to a project and populate EDT properties</li> <li>- add an enumeration to a project</li> <li>- add or update enumeration elements and enumeration element properties</li> <li>- add an extension of EDT and enumerations</li> </ul>
Create classes and extend AOT elements	<ul style="list-style-type: none"> <li>- add a new class to a project</li> <li>- create a new class extension and add new methods</li> <li>- add event handler methods to a class</li> </ul>

## Develop and test code (10-15%)

Develop X++ code	<ul style="list-style-type: none"> <li>- identify and implement base types and operators</li> <li>- implement common structured programming constructs of X++</li> <li>- create, read, update, and delete (CRUD) data</li> <li>- identify and implement global functions in X++</li> <li>- implement table and form methods</li> </ul>
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Develop object-oriented code	<ul style="list-style-type: none"> <li>- implement X++ variable scoping</li> <li>- implement inheritance and abstraction concept</li> <li>- implement query objects and the QueryBuilder class</li> <li>- implement attribute classes</li> <li>- implement chain of command</li> </ul>
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## Implement reporting (10-15%)

Describe the capabilities and limitations of reporting tools in Dynamics 365 Finance and Operations apps	<ul style="list-style-type: none"> <li>- create and modify report data sources and supporting classes</li> <li>- implement reporting security requirements</li> <li>- describe the report publishing process</li> <li>- describe the differences between using Entity store and Bring your own database (BYOD) as reporting data stores</li> </ul>
Design, create, and revise Dynamics reports	<ul style="list-style-type: none"> <li>- create and modify reports in Finance and Operations apps that use SQL Server Reporting Services (SSRS)</li> <li>- create and modify Finance and Operations apps reports by using Power BI</li> <li>- create and modify Finance and Operations apps reports FO by using Microsoft Excel</li> </ul>
Design, create, and revise Dynamics workspaces	<ul style="list-style-type: none"> <li>- design KPIs</li> <li>- create drill-through workspace elements</li> <li>- implement built-in charts, KPIs, aggregate measurement, aggregate dimension, and other reporting components</li> </ul>

## Integrate and manage data solutions (10-15%)

Identify data integration scenarios	<ul style="list-style-type: none"> <li>- select an appropriate data integration API</li> <li>- identify differences between synchronous vs. asynchronous patterns</li> </ul>
Implement data integration concepts and solutions	<ul style="list-style-type: none"> <li>- develop a data entity by using Visual Studio</li> <li>- develop, import, and export composite data entities</li> <li>- identify and manage unmapped fields in data entities</li> <li>- consume external web services by using OData and RESTful APIs</li> <li>- integrate Finance and Operations apps with Microsoft Excel by using OData</li> <li>- develop and integrate Power Automate and Power Apps</li> </ul>
Implement data management	<ul style="list-style-type: none"> <li>- import and export data using entities between Finance and Operations apps and other systems</li> <li>- monitor the status and availability of entities</li> <li>- enable Entity Change Tracking</li> <li>- set up a data project and recurring data jobs</li> <li>- design entity sequencing</li> <li>- generate field mapping between source and target data structures</li> <li>- develop data transformations</li> </ul>

## Implement security and optimize performance (10-15%)

Implement role-based security policies and requirements	<ul style="list-style-type: none"> <li>- create or modify duties, privileges, permissions, and roles</li> <li>- enforce permissions policies</li> <li>- implement record-level security by using Extensible Data Security (XDS)</li> </ul>
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## Microsoft Dynamics 365: Finance and Operations Apps Developer Sample Questions (Q151-Q156):

### NEW QUESTION # 151

A company uses Dynamics 365 Finance. You are customizing elements for the extended data types (EDTs) shown in the following table.

You have a Table named WorkCalendar. The table has a column named BasicCalendarID that uses the BasicCalendarID EDT. You need to increase the length of the column by using an extension.

Solution: Create a derived EDT for BasicCalendarID.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

### NEW QUESTION # 152

You need to create a chain of command method for inserting the data on the table for the new fields. How should you complete the code? To answer, select the appropriate configuration in the answer area. NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

Graphical user interface, text, application, email Description automatically generated

<https://learn.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/extensibility/add-method-table>

### NEW QUESTION # 153

An error occurs when an employee creates a new workflow using a custom approval element to track the status of a document. You need to ensure that the workflow is created correctly.

in which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

**Answer:**

Explanation:

Explanation

### NEW QUESTION # 154

You are Dynamics 365 Finance and Operations developer.

You need to explain the performance advantages of the different concurrency models.

What are three performance advantages of optimistic concurrency control over pessimistic concurrency control? Each control answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Records are locked for a shorter length of time.
- B. Fewer resources are used to lock records during updates.
- C. Records remain available for other processes while they are selected from the database.
- D. Records are locked as soon as they are retrieved from the database.

**Answer: A,B,C**

Explanation:

Optimistic Concurrency only locks records from the time when the actual update is performed.

Following are the advantages of using OCC:

Records remain available for other processes to update if they have been selected from the database but haven't yet been updated.

Records are locked for a shorter length of time.

Fewer resources are used to hold the locks during the update process.

Incorrect Answers:

A: Pessimistic Concurrency Control locks records as soon as they are fetched from the database for an update.

Reference:

<https://docs.microsoft.com/en-us/dynamicsax-2012/developer/optimistic-concurrency-control>

## NEW QUESTION # 155

You are a Dynamics 365 Finance and Operations developer.

You need to monitor system performance.

Which tools should you use? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

Box 1: LCS Environment Monitoring tool

Microsoft Dynamics Lifecycle Services (LCS) provides to help you monitor, diagnose, and analyze the health of the Finance and Operations environments that you manage.

Box 2: Trace Parser

You can use the Trace parser to consume traces and analyze performance in your deployment.

Box 3: SQL Profiler

Reference:

<https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/lifecycle-services/monitoring-diagnostics>

## NEW QUESTION # 156

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More and more people hope to enhance their professional competitiveness by obtaining Microsoft certification. However, under the premise that the pass rate is strictly controlled, fierce competition makes it more and more difficult to pass the MB-500 examination. In order to guarantee the gold content of the MB-500 certification, the official must also do so. However, it is an indisputable fact that a large number of people fail to pass the MB-500 examination each year. Perhaps it was because of the work that there was not enough time to learn, or because the lack of the right method of learning led to a lot of time still failing to pass the exam. Whether you are the first or the second or even more taking MB-500 Exam, MB-500 study materials are accompanied by high quality and efficient services so that they can solve all your problems. Passing the exam once will no longer be a dream.

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