

Microsoft Dynamics 365 Finance and Operations Apps Developer



Online Course

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Course Modules

1. Major components of finance and operations apps

- Finance and operations app modules reqrd for a soln
- Architectural diff bet the cloud and on-premises
- Identify components of the application stack
- Differentiate the purposes betw packages, projects, etc.,

2. Design and implement a UI

- Finance and operations UI layouts and components
- Design workspaces
- Design and personalize UI elements
- Define navigation elements
- Configure filtering and sorting options



3. ALM and MS Dynamics 365 Lifecycle Services

- Capabilities of the Environment Monitoring Tool
- Purpose & uses of Lifecycle Services tools & components
- Research and resolve issues by using Issue Search
- Identify activities that require asset libraries
- Prepare deployment packages and deploy packages

4. Manage source code and artifacts

- Create, check out, and check in code and artifacts
- Branch and merge code
- Compare code and resolve version conflicts

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5. Customize finance & operations apps using Visual Studio

- Create extension models
- Design and build projects
- Manage metadata using Application Explorer
- Synchronize data dictionary changes with the app database
- Create elements by using element designers

6. Create and extend UI elements

- Add a new form to a project and apply a pattern
- Configure a data source for the form
- Add a grid & grid fields, groups, & other ctrls to a form
- Create and extend menus and menu items
- Test form functionality and data connections
- Create and use label files



7. Create and extend the data model

- Create and extend tables
- Add table fields and field properties to a table
- Add field groups, relations, delete actions, etc.,

8. Create Extended Data Types (EDTs) and enumerations

- Add an EDT to a project and populate EDT properties
- Add an enumeration to a project
- Enumeration elements & enumeration element properties
- Add an extension of EDTs and enumerations



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9. Create classes and extend AOT elements

- Add a new class to a project
- Create a new class extension and add new methods
- Add event handler methods to a class
- Add attributes to a class



10. Develop X++ code

- Identify and implement base types and operators
- Common structured programming constructs of X++
- Create, read, update, and delete (CRUD) data
- Identify and implement global functions in X++
- Implement table and form methods

11. Develop object-oriented code

- Implement inheritance and abstraction concept
- Implement query objects and the QueryBuilder class
- Implement attribute classes
- Implement Chain of Command (CoC) and wrapper classes
- Implement event handler classes and delegates

12. Finance and operations app framework functionality

- Implement the SysOperation framework
- Implement the workflow framework
- Implement the batch framework
- Implement the SysExtensionSerializer

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13. Perform testing

- Implement the Regression suite automation tool (RSAT)
- Unit/cmpnt test usg SysTest framework & Task recorder
- Perform testing using Acceptance Test Library (ATL) tool

14. Capabilities & limitations of reporting tools

- Create report data sources & supporting classes
- Implement reporting security requirements
- Describe the report publishing process
- Diff bet using Entity store and BYOD or Azure Data Lake



15. Design, create, and revise Dynamics 365 reports

- Create Reports in finance & operations apps that use SSRS
- Create and modify finance and operations apps reports
- Create and modify finance and operations apps reports

16. Design, create, and revise Dynamics 365 workspaces

- Design and implement key performance indicators (KPIs)
- Create drill-through workspace elements
- Built-in charts, Power BI embedded visualizations, etc.,

17. Identify data integration patterns and scenarios

- Identify data integration patterns
- Select an appropriate data integration API
- Diff between synchronous and asynchronous patterns

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18. Implement data integration concepts and solutions

- Develop a data entity by using Visual Studio
- Develop, import, & export composite & agt data entities.
- Consume external web services
- Implement electronic reporting
- Implement custom services and Batch OData API



19. Implement data management

- Import and export data using entities
- Monitor the status and availability of entities
- Enable change tracking for entities
- Set up a data project and recurring data jobs
- Design entity sequencing
- Field mapping bet source & target data structures
- Develop data transformations

20. Microsoft Power Platform, Microsoft 365, and Azure

- Power Automate and Power Apps
- Microsoft Dataverse with finance and operations apps
- Microsoft Dataverse with finance and operations apps
- Finance and operations apps with Microsoft Excel
- Implement business events

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21. Implement security policies and requirements

- Create or modify duties, privileges, permissions, and roles
- Enforce permissions policies
- Implement Extensible Data Security (XDS) policies
- Enforce Microsoft Entra ID authentication

22. Fundamental performance optimization techniques

- Identify & apply caching mechanisms for forms & tables
- Implement the global cache and singleton
- Create temporary tables for optimization purposes
- When to use set-based queries and row-based queries
- Modify queries to optimize performance
- Modify variable scope to optimize performance
- Analyze and optimize concurrency



23. Optimize performance

- Capture traces by using TraceParser and analyze traces
- Diagnose and optimize client performance
- Diagnose and optimize client performance
- Optimize performance for data entities, reports, etc.,
- Implement Async and Sandbox framework

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