

Microsoft Certification Courses in Development

Computer Point Nepal is a Microsoft Certified Partner for Learning Solutions

Delivering training based on Microsoft Official Course Curriculum.

MCAD (Microsoft Certified Application Developer)

Exam 70-306 : Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio .NET

■ Creating User Services

- Create a Windows Form by using the Windows Forms Designer
- Add controls to a Windows Form
- Implement navigation for the user interface (UI)
- Validate user input
- Implement error handling in the UI
- Implement online user assistance
- Incorporate existing code into a Microsoft Windows-based application
- Display and update data
- Instantiate and invoke a Web service or component
- Implement globalization
- Create, implement, and handle events
- Implement print capability
- Implement accessibility features

■ Creating and Managing Components and .NET Assemblies

- Create and modify a .NET assembly
- Create a Windows control

■ Consuming and Manipulating Data/Testing and Debugging

- Access and manipulate data from a Microsoft SQL Server database by creating and using ad hoc queries and stored procedures
- Access and manipulate data from a data store. Data stores include relational databases, XML documents, and flat files. Methods include XML techniques and ADO .NET
- Handle data errors
- Create a unit test plan
- Implement tracing
- Debug, rework, and resolve defects in code

■ Deploying a Windows-based Application/Maintaining and Supporting a Windows-based Application

- Plan the deployment of a Windows-based application
- Deploy a Windows-based application
- Add assemblies to the Global Assembly Cache
- Verify security policies for a deployed application
- Optimize the performance of a Windows-based application
- Diagnose and resolve errors and issues

■ Configuring and Securing a Windows-based Application

- Configure a Windows-based application
- Configure security for a Windows-based application
- Configure authorization

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AN ISO 9001: 2000 CERTIFIED ORGANIZATION

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Exam 70-310 : Developing XML Web Services and Server Components with Microsoft Visual Basic .NET and the Microsoft .NET Framework

- **Creating & Managing Windows Services, Serviced Components, .NET Remoting Objects & XML Web Services**
 - Create and manipulate a Windows service ● Create and consume a serviced component ● Create and consume a .NET Remoting object ● Create and consume an XML Web service ● Implement security for a Windows service, a serviced component, a .NET Remoting object, and an XML Web service ● Access unmanaged code from a Windows service, a serviced component, a .NET Remoting object, and an XML Web service
- **Consuming and Manipulating Data**
 - Access and manipulate data from a Microsoft SQL Server database by creating and using ad hoc queries and stored procedures
 - Create and manipulate DataSets ● Access and manipulate XML data
- **Testing and Debugging**
 - Create a unit test plan ● Implement tracing ● Instrument and debug a Windows service, a serviced component, a .NET Remoting object, and an XML Web service ● Use interactive debugging ● Log test results
- **Deploying Windows Services, Serviced Components, .NET Remoting Objects, and XML Web Services**
 - Plan the deployment of and deploy a Windows service, a serviced component, a .NET Remoting object, and an XML Web service
 - Create a setup program that installs a Windows service, a serviced component, a .NET Remoting object, and an XML Web service
 - Publish an XML Web service ● Configure client computers and servers to use a Windows service, a serviced component, a .NET Remoting object, and an XML Web service ● Implement versioning ● Plan, configure, & deploy side-by-side deployments & applications ● Configure security for a Windows service, a serviced component, a .NET Remoting object, & an XML Web service

Exam 70-229 : Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition

- **Developing a Logical Data Model**
 - Define entities. Considerations include entity composition and normalization ● Design entity keys. Considerations include FOREIGN KEY constraints, PRIMARY KEY constraints, and UNIQUE constraints ● Design attribute domain integrity. Considerations include CHECK constraints, data types, and nullability
- **Implementing the Physical Database**
 - Create and alter databases. Considerations include file groups, file placement, growth strategy, and space requirements
 - Create and alter database objects. Objects include constraints, indexes, stored procedures, tables, triggers, user-defined functions, and views ● Alter database objects to support replication and partitioned views ● Troubleshoot failed object creation
- **Retrieving and Modifying Data**
 - Import and export data. Methods include the bulk copy program, the Bulk Insert task, and Data Transformation Services (DTS)
 - Manipulate heterogeneous data. Methods include linked servers, OPENQUERY, OPENROWSET, and OPENXML
 - Retrieve, filter, group, summarize, and modify data by using Transact-SQL ● Manage result sets by using cursors and Transact-SQL. Considerations include locking models and appropriate usage ● Extract data in XML format. Considerations include output format and XML schema structure
- **Programming Business Logic**
 - Manage data manipulation by using stored procedures, transactions, triggers, user-defined functions, and views
 - Enforce procedural business logic by using stored procedures, transactions, triggers, user-defined functions, and views
 - Troubleshoot and optimize programming objects. Objects include stored procedures, transactions, triggers, user-defined functions, and views
- **Tuning and Optimizing Data Access**
 - Analyze the query execution plan. Considerations include query processor operations and steps
 - Capture, analyze, and replay SQL Profiler traces. Considerations include lock detection, performance tuning, and trace flags
 - Create and implement indexing strategies. Considerations include clustered index, covering index, indexed views, nonclustered index, placement, and statistics ● Improve index use by using the Index Tuning Wizard
 - Monitor and troubleshoot database activity by using SQL Profiler
- **Designing a Database Security Plan**
 - Control data access by using stored procedures, triggers, user-defined functions, and views ● Define object-level security including column-level permissions by using GRANT, REVOKE, and DENY ● Create and manage application roles