

C # .NET Certification



Zetlan Technologies

e-Learning Course

Master C# and .NET fundamentals,
designing and developing
scalable applications !!

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Introduction to .NET

- Introduction to .Net
- .NET Platform
- .NET Frameworks
- CLR, CTS, MSIL & Other Tools
- .NET Security

.NET Framework

- Feature of .NET
- Advantage in .NET
- Disadvantages in .NET
- .NET Versions

Visual C# .NET Language

- What is C# .NET
- C, C++ to Visual C#
- Features of C#
- .NET Namespaces
- Visual Studio .NET Versions

Visual C# .NET Programming

- Basic of Programming
- C# .NET Program Design
- Variables and Data Types
- Strings and arrays
- Console Class
- Statement and String Format
- C# Programming Structure
- CLI Arguments
- VC .NET to Create C# .NET Apps
- C# Features

Windows Form Application

- Windows Forms Library
- Forms and Controls
- Event Handling
- Basic controls
- Windows Forms – Tools and Menus
- Built-in dialog boxes and Printing
- Inheritance with forms

Object Oriented Concepts

- Classes and Objects
- Abstract & Override Methods
- Keywords
- Constructors & Destruction
- Overloading
- Class variables and Methods
- Inheritance and Polymorphism
- Root of all Classes
- Polymorphism and Virtual Functions
- Type of Classes

Error Handling

- Unstructured & Structured error handling
- Error Categories
- Application Debugging
- Code Optimization
- Testing and Strategies

ADO .NET

- DAO to ADO .NET
- ADO.NET LINQ
- Dataset
- Connected and Disconnected Environment
- ADO .NET Object Model
- Data Sources, Providers and Connections
- Commands and Data Readers
- Data Sets and Data Adaptors
- Data Tables, Rows and Columns

Data Sources and .NET Data Providers

- Connecting to a Data Source
- SQL Server .NET Data Provider
- OLE-DB .NET Data Provider
- Connections and Connection Strings
- SQL-Server Integrated Security
- Connection Pooling

Accessing Data in the Connected and Disconnected Environment

- Creating and Executing Commands
- Reading data using a data reader
- Batch queries & Single result Queries
- Adding, Modifying and Deleting Data
- Stored Procedures and Dataset Navigation
- Dataset and Data Adapter Features
- Filling Data sets using data adapters
- Read data using data tables, rows and columns
- Batch Queries and data sets
- Visual Studio Data Menu & Tools
- Dataset Functionality and Dataset Optimistic Concurrency

Sorting, Searching and Filtering

- Searching in data sets
- Find on Primary Keys
- Searching on column, row state, wildcard
- Sorting and Filtering using data views
- Searching in a data view

Crystal Reports

- Reporting in the Application
- Crystal Reports reporting tools
- Different Versions of Crystal Reports
- Developing a Crystal Report
- Different ways to Invoke Crystal Reports

