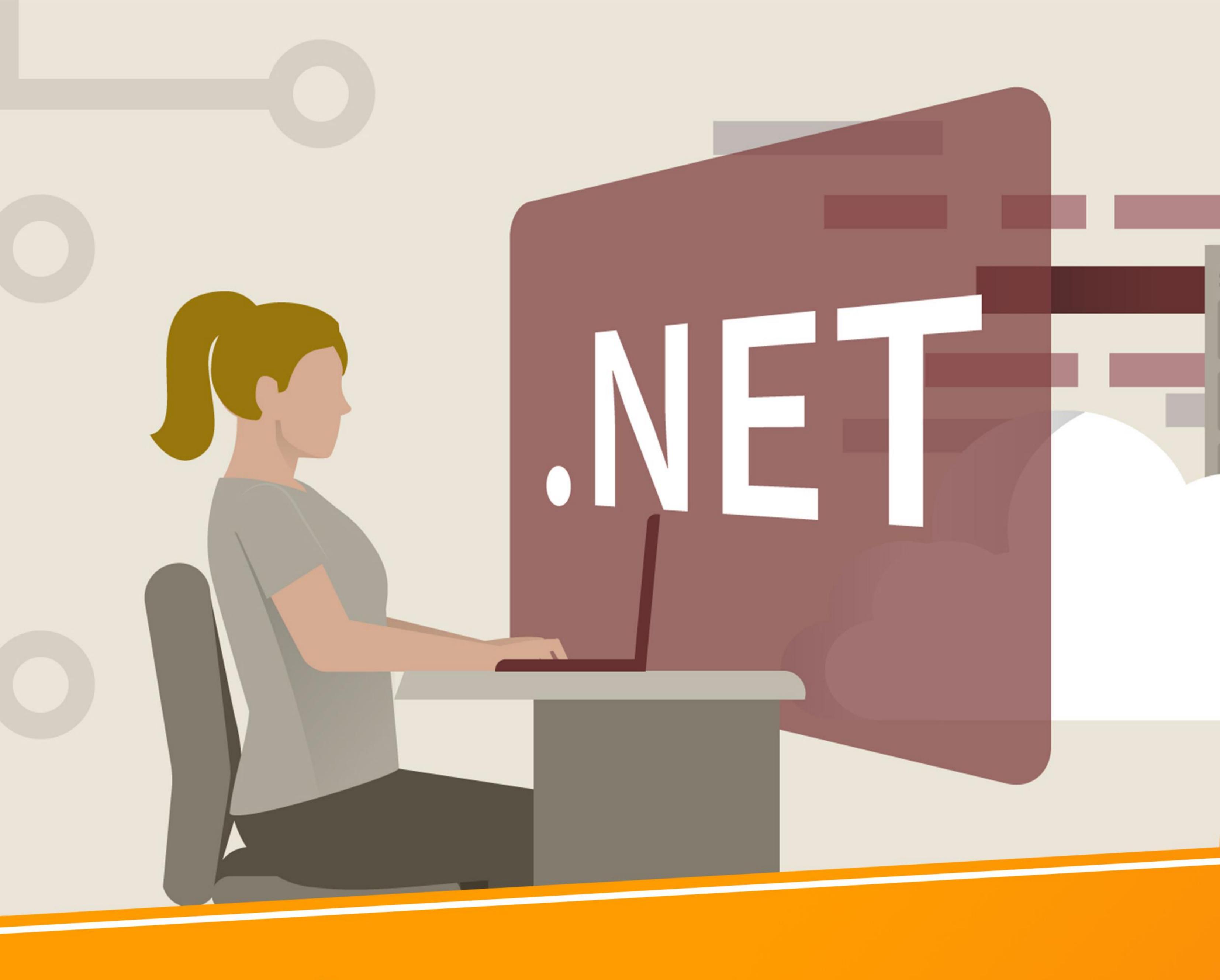




## 



### About Course

.NET (pronounced as "dot net"; previously named .NET Core) is a free and open-source, managed computer software framework for Windows, Linux, and macOS operating systems. It is a cross-platform successor to .NET Framework.

NET certification course is a comprehensive introduction to the . NET space and . NET coding using C#. This course lays the foundation for the major aspects of . NET development, including the Visual Studio Environment, data connections, the C# language, and WinForms and WebForms projects.

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1 An Introduction to C#

What is .NET?
What is the CLR?
The FCL
Primitive Types
Namespaces
Statements and Expressions
Operators

#### Classes and Objects

Constructors
Reference Types
Object Oriented Programming
Inheritance
Access Modifiers
Abstract Classes
Virtual Members
Static Classes
Sealed Classes
Partial Classes



#### 3) C# - Types

Reference Types
Value Types
The struct
Testing Reference Types
Testing Value Types
Passing Parameters
Strings
Boxing
The enum
Defining Types
Interfaces
Arrays
Assemblies

#### C# - Events, Properties, and Methods

Methods
Method Overloading
Fields
Properties
Events
Events - Delegates
Events - Subscribing

Events - Publishing



#### C# - Flow Control and Exceptions

Branching
Switching
Looping
Using foreach
Jumping
Returning and Yielding
Throwing Exceptions
Built-in Exceptions
Handling Exceptions
Chaining Catch Blocks
Finally
Re-throwing Exceptions
Custom Exceptions

#### C# and the CLR

Garbage Collection
Threads
Async
Parallel
Reflection
Attributes
Custom Attributes
COM Interop
Plnyoke



#### C# and Generics

Why Generics?
Building Collections Without Generics
Generic Collections
Generic Parameters
Generic Constraints
Generic Methods
The default Keyword
Generic Interfaces
Generic Delegates
Variance

#### C# and LING

Extension Methods
Extensions and Lambdas
Lambdas and Funcs
Funcs and Expressions

#### C# and the DLR

Why Dynamic?
Using Dynamic Types
Excel Automation
The DLR
ExpandoObject



## DynamicObject Calling Ruby

#### Object Oriented Programming with C#

Primitive Procedural Preoccupations
The Big Encapsulation
Little Abstractions
The Inheritance Check
A Clean Interface
Directional Dependencies

#### Functional Programming with C#

Prime Abstraction
A Higher Calling
Lazy Code
Timing and Retries
Partial Application and Currying
Asynch and Parallel
Multithreding

#### Exploring the .NET Framework

File I/O
Resource management with try/finally/using
Using XML serialization

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Introducing assembly resolution
Deploying dependent assembly probing
Using a config file to control probing
ArrayList
Hashtable
SortedList
Stack and Queue

#### Windows Form

Introduction to Windows Form Form Controls
User Define Controls

#### 14) ADD.NET

Connected Architecture
Disconnected Architecture
Working with Transaction

#### Windows Presentation Foundation(WPF)

Windows Application using WPF
Data Binding
Data Template
Styles
Commands



#### (16)

#### ASP.NET

Web Application using ASP.NET
ASP.NET Architecture
Control-based Programming
User Interface Elements
Deployment
Web Sites, Applications, and Virtual Directories in IIS
ASP.NET Diagnostics and Health Monitoring

(17)

#### ASP.NET Working With Data

Data Binding
State Management
Validation
Caching

(18)

#### ASP.NET 3.5 Security

IIS 6 & IIS7 URL Authorization
Forms authentication
Role-based authorization
Trimming site maps with roles
Config file encryption
ASP.NET Membership
Resources and Internationalization



#### (19)

#### ASP.NET 3.5 Advanced Topics

HTTP Pipeline Custom Controls Web Parts Web Services



#### ASP.NET AJAX

ASP.NET Ajax Introduction ASP.NET Ajax Server Controls ASP.NET Ajax Server Data ASP.NET Ajax Client-side Library ASP.NET Ajax Control Toolkit



#### ASP.NET MVG

Web Application using MVC Pattern Razor View Controller Model



#### Entity Framework

Introducing the Entity Framework Code First Approach







#### Windows Communication Foundation(WCF)

WCF Configuration
Hosting WCF Services in Windows Services
Hosting WCF Services in IIS
Building RESTful services with WCF



#### Windows Workflow Foundation(WF)

Introducing Windows Workflow Foundation Programming workflows in WF Writing custom activites in WF





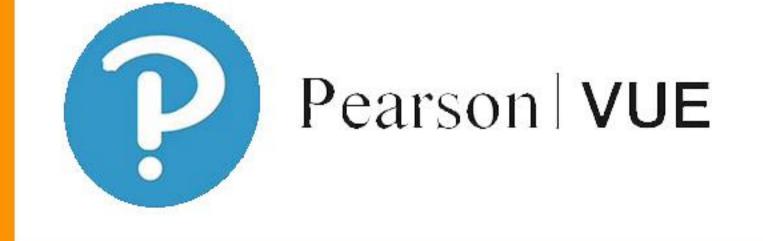
















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