

# C#.Net

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## **Module-I: .Net Framework 4.5 and C# Language Fundamentals**

### **1. DOTNET Framework 4.5**

Framework Architecture  
Common Language Runtime  
Garbage Collection and MSIL

**Duration : 2 hours**

### **2. Object Oriented Programming with C#**

OOPs Concepts  
Partial Classes and Partial Methods  
Managing Types, Properties, Methods and Parameters  
Named Parameters and Optional Parameters  
String Handling  
Abstract Classes and Interfaces  
The Exception Handling in .Net 4.0

**Duration :36 hours**

### **3.C# Advanced Features**

Delegates and Events  
Attributes  
Familiarizing Collections and Generics  
Language Integrated Query (LINQ)  
Object and Collection Initializes  
Query Expressions  
Navigating the File System  
Reading and writing files  
Compressing Streams  
Forming regular expressions  
Encoding  
Serializing Objects

**Duration: 36 hours**

## **Module II: Developing Windows Applications with C#**

### **1. Creating a User Interface Application by Using Standard Controls**

Add and configure a Windows Form.  
Manage control layout on a Windows Form.  
Managing Form-Properties  
Add and configure a Windows Forms control.  
Create and configure menus.  
Create event handlers for Windows Forms and controls  
Construct Print documents  
Create a customized Print Preview component  
Implement Globalization and Localization for a windows application  
Implement accessibility Features  
Create and configure MDI forms

Drag and Drop functionality in C#  
Create a User control in C#  
Create a composite windows forms control  
Create an extended control by inheriting from existing windows control

**Duration: 32 hours**

**2. Designing and Implementing Databases with SQL Server 2008**

Introduction to ADO.NET  
Creating Tables and Relationships  
SQL Fundamentals  
Stored Procedures  
Introduction to Data bound Controls  
Insert, Update, Delete, Select commands in both connected and disconnected environment

**Duration: 20 hours**

**3. WPF Application Fundamentals**

Windows applications  
Navigation applications / XAML Browser Applications  
Binding to a WPF element  
Transformations- Render, Skew, Rotate

**Duration: 2 hours**

**4. Create a Windows Forms Setup application**

Create Setup using Click once Technology  
Deploy an application using setup project

**Duration: 2 hours**

**Batch Timing: 9 am-5.30 pm / 9 am-1 pm / 1.30 pm-5.30 pm / Saturday Only**

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