

Tech-Vidhya Certified “.NET” Programmer

Course Objective:

The course aims to aware candidates about the C#, ASP.NET, SQL Server 2005, XML, ADO.NET which will help them to develop a robust application either for Web or Standalone.

Course Overview:

This training program provides a strong foundation in Object-Oriented Programming approaches and the fundamentals of C# programming language. This program also familiarizes the students with Structured Query Language (SQL) and provides sufficient knowledge to query and manage a database, using SQL Server. Students get exposed to Windows based SGUI Application development using Rapid Application Development (RAD) on the .NET framework. Further, one develops skills on database connectivity technologies such as ADO.NET to create data centric applications on .NET platform. This program also provides an understanding to develop and deploy Web applications using ASP.NET. It focuses on building distributed applications by using Visual Studio.

Course Contents:

Module-A: C#

Structure of C# program & Data Type. Create Class and Objects. Define and implement Encapsulation and Abstraction. Use Operators and decision-making Constructs. Implement Structures, Enumerations, Arrays and Collections. Use Constructors and Destructors. Implement Polymorphism and Overload Method and Operators, Inheritance, Dynamic polymorphism. File handling, Use Exception handling. Develop single and Multithreaded applications. Explain the use of Delegates & Events, Attributes. Identify the components of the Visual Studio .NET Framework and Integrated Development Environment.

Module-B: SQL Server 2005

Introduction to RDBMS. Design and Create an efficiently structured database. Learn the SQL Language and Retrieve data using the SELECT statement. Create, Modify and delete a Database and table row data. Combine data from multiple tables using JOIN, Sub Queries. List simple functions (String, Date, Numerical). Implement Indexes, Views, and Full-Text Search. Implement Stored Procedures and Functions. Implement Triggers and Transactions. Implement Managed Code. Secure Databases. Back Up and Restore Data. Import and Export Data

Module-C: GUI Application Development Using .NET Framework Identify the components of the .NET Framework. Use the Visual Studio .NET IDE. Work with the Windows Forms and Controls. Implement Printing and Reporting Functionality in a Windows Forms Application. Implement Help in the .NET Application. Create Components and Windows Controls in .NET Applications. Implement Asynchronous Programming. Package, Deploy, and Secure Applications.

Module-D : Developing Database Applications Using ADO.NET and XML

Identify the need for XML as a standard data interchange format. Create an XML schema. Create a Cascading Style Sheet and an Extensible Style Sheet Language. Transformation (XSLT) to format data. Use X-Path pattern matching in a style sheet. Create and manage connections using ADO.NET. Identify the disconnected and connected environment in ADO.NET. Create datasets and data table. Retrieve and store large binary data. Perform bulk copy operations. Execute SQL notification, maintain and update a cache. Manage distributed transactions. Read, write, validate and modify XML data using XML reader and writer classes. Read, write and modify XML data using DOM API.

Module-E : Developing web Application using ASP.NET

Introduction to Web Application. Create and program Web applications. Add and configure server controls for a Web application. Access and display data in a Web application. Control access to a Web application. Deploy a Web application. Build dynamic Web applications. Create controls for Web applications. Optimize Web applications. Build customizable Web applications.

Module-F: Live Projects

By the end of this course candidates will be able to:

- Develop Object Oriented programs using C#
- Design, implement and maintain databases, using SQL Server
- Develop data-centric Windows Applications, using VC#.NET
- Create and deploy Web Applications using ASP.NET

Method of Training:

Providing Lectures by qualified & highly experienced trainers. We provide elaborate classroom study as well as labs for practical training, Group discussions, Questions & Answers. The candidates are thoroughly assessed during the training by regular written tests and interviews and finally ranked according to their performance.

Course Code	:	T-V/IT/C008
Duration	:	360 hr
Mode	:	Regular/Classroom/Lab/Live Project
Eligibility	:	Participants should be familiar with any programming language.

Certification By : **Tech-Vidhya**

How to Apply : Fill online registration form and make a payment of Rs.-551/- (Registration fee for Indian resident only) by different payment options or Download registration form, fill it and send it along with the D.D./cheque (in the favors of "Aayan Infratel Pvt. Ltd." payable at Jaipur) or visit our training center.



Platform to excel your career

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