

SequelGate

.NET(C#, ASP, VB) Course

Complete Practical & Real-time Training

Mode: Instructor Led - LIVE , Online Training

Duration: 7 Weeks, Weekly 5 Days

Type: 100% Practical. Theory Material provided in Advance.

Training Highlights

- ✓ **Complete Practical and Real-time Scenarios**
- ✓ **Study Material and Practice Labs**
- ✓ **Certification Material & Resume Preparation**
- ✓ **Interview Preparation and Guidance**
- ✓ **Technical Support and Placements Assistance**
- ✓ **One Real-time Case Study and FAQs with Answers**
- ✓ **Mock Interview and Course Completion Certificate**

All Training Sessions are Completely Practical & Real-time

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .

CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

C# .NET

Introduction to .NET Framework

- Overview of .NET and .NET Framework
- .NET Framework Architecture
- .NET Compliant Languages
- Common Language Specification (CLS)
- Common Type System (CTS)
- Framework Class Library (FCL)
- Base Class Library (BCL)
- Common Language Runtime (CLR)
- Intermediate Language (IL)
- Understanding CLR and Execution of .NET Application
- Components of CLR

Introduction to C# .Net

- Overview of C#.Net
- What is Visual Studio?
- C# Programming Language Features
- Hello World Program
- General Structure of a C# Program
- Modifiers (Access Modifiers)
- Casting and Type Conversion
- Boxing and Unboxing

Selection, Conditional Looping

- List
- Dictionary
- Queue
- Stack

Introduction to OOP'S Concepts

- Overview
- Features of OOP'S
- Classes & Objects
- Features of Object
- Constructor
- Destructor
- Properties
- Method Overloading
- Method Overriding
- This & Base keyword
- Partial Class
- Sealed Class

Interfaces & Abstract Class

- Interfaces
- Defining and Implementing Single & Multiple Interfaces
- Abstract Class
- Difference between Interface & Abstract Class
- Reflection
- What is an Assembly?
- Types of Assemblies?

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .
CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

<p>Statement</p> <ul style="list-style-type: none"> • Selection Statements • If-else • Switch • Overview of Looping Statement • Looping • While • Do -While • For • ForEach <p>Arrays</p> <ul style="list-style-type: none"> • Arrays Overview • Declaring Arrays • Initializing Arrays • Accessing Array Members • Arrays are Objects • Using foreach with Arrays • Types of Array • Single Dimensional • Multi-Dimensional • Jagged Arrays <p>Collection in C#</p> <ul style="list-style-type: none"> • Introduction • Non-Generic Collection • ArrayList • Stack • Queue • HashTable 	<ul style="list-style-type: none"> • Components of Assemblies? <p>Exception Handling and Delegates</p> <ul style="list-style-type: none"> • Exception Handling in C# • Try • Catch • Finally keywords <p>Delegates & Event Handling</p> <ul style="list-style-type: none"> • Delegates • Single Cast Delegate • Multi Cast Delegate <p>Windows Programming</p> <ul style="list-style-type: none"> • Overview of Windows Forms & Controls • Common Controls Examples • Simple Windows Applications <p>ADO.NET</p> <ul style="list-style-type: none"> • ADO.NET Overview • Architecture of ADO.NET • Connected • Disconnected • SqlConnection class • SqlCommand class • DataReader class • SqlDataAdapter class • DataSet class • Datagrid view with DML Operations
---	---

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar,HITEC City, Hyderabad .

CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

- Generic Collection

ASP .NET

ASP.NET & Installation

- Basics
- Web Programming
- HTML, DHTML
- JavaScript
- IIS
- ASP

ASP.NET INTRODUCTION

- Difference Between ASP and ASP.NET
- Architecture
- Inline Technique & Code-Behind Technique
- Code Render Blocks
- Server Controls
- Page lifecycle
- Post back Request
- View State, Directives

PROGRAMMING WITH SERVER CONTROLS

- Html Server Controls
- Web Server Controls
- Basic Web Controls

XML PROGRAMMING XML

- DTDs & XSDs
- Parsers
- SAX Model
- DOM Model
- XML Programming in .Net
- XML Readers
- XML Serialization

STATE MANAGEMENT WITH ASP.NET

- Context
- View State
- Cookie State
- Session State
- Session Tracking
- Application Object
- Session and Application Events

ASP .NET APPLICATION TUNING

- Machine.Config & Web.Config.
- App Setting
- Compilation Settings
- Custom Error Settings
- Session State Settings
- InProcess & OutProcess Session

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .
CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

- List Controls, Data Controls
- Adv Controls, User Controls

CUSTOM CONTROL Development

- MASTERPAGES AND SITE NAVIGATION

ADO.NET PROGRAMMING

- Architecture
- DataReaders and DataSets
- Command Object
- Transaction Programming
- Procedure Execution
- Data Adapter and Data Set
- Data Tables
- Data Relation
- Data Views
- Updating Dataset

ADO.NET AND ASP.NET

- Working with Data Controls
- GridView
- Inserting, Updating, Deleting
- Sorting in Data Grid
- Paging in Data Grid
- DataSource Controls
- Dataset
- DetailsView
- FormView
- Data List
- Repeater Control

States

- State Server & SQL Server
- Cookieless Session State
- Application and Global.ASAX

CACHING

- Introduction to Caching
- Types of Caching
- Page Caching
- Diff. between Webuser Controls & Custom Controls
- Page fragmentation Caching
- Data Caching
- Data Caching – Application Object

TRACING & SECURITY

- Page Level
- Application Level
- Authentication & Authorization
- Windows Authentications
- Forms Authentications
- Passport Authentications
- Memberships

WEB SERVICES

- Architecture
- WSDL, SOAP, UDDI
- Publishing and Consuming Web Services
- Web Client
- Windows Client

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .

CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

<ul style="list-style-type: none"> • Crystal Reports 	<ul style="list-style-type: none"> • Caching Web Services • Security in Web Services
---	--

VB .NET

<p>Introduction to Visual Basic Programming</p> <ul style="list-style-type: none"> • Basic .NET concepts • Exploring the environment • Creating the VB.NET sample project <p>The Visual Basic Language Essentials</p> <ul style="list-style-type: none"> • Data Types • Control Statements <p>Using Variables and Arrays</p> <ul style="list-style-type: none"> • What are variables • Arrays • Hungarian notation • Kinds of variables (Data types) • Assigning variable values • Operator precedence • Strings • Hard coding variables 	<p>Structured Programming using Modules</p> <ul style="list-style-type: none"> • Modular program techniques • Top down vs bottom up • Modules and methods • Methods, Method header • Parameters, Arguments • Cohesion and coupling • Variable scope • Local vs global variables • Passing values • Procedures vs functions • Programming exercise: Simple calculator <p>Using Controls</p> <ul style="list-style-type: none"> • Types of controls • Button, Label • Text box, List box • Combo box, Check box • Radio button
--	--

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar,HITEC City, Hyderabad .
CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

- Programming exercise
- Using variables
- Comments

Properties, Methods, Events and Classes

- Objects and classes, OOP concepts
- Fields, properties, methods and events
- Encapsulation, inheritance and polymorphism
- Overloading, overriding and shadowing
- Access levels
- Constructors and destructors
- Programming exercise: Cat class

Inheritance

- What is inheritance
- When to use inheritance
- Inheritance rules
- Inheritance modifiers
- Overriding properties and methods
- MyBase, MyClass
- Programming exercise: club members

Polymorphism

- What is polymorphism
- Using polymorphism
- Programming Exercise: Club members

Object-Oriented Programming with Visual Basic

- Designing classes with encapsulation

- HScroll bar, VScroll bar
- Picture box
- FolderBrowserDialog
- Group box
- Timer, Using controls

Engaging the .NET Framework

- Common Language Runtime (CLR)
- CLR architecture and services
- Managing memory and garbage collection
- Compiling VB Scripts
- Handling errors with Try/Catch/Finally
- Throwing Exceptions

Developing Complete VB.NET App

- System development lifecycle
- System request
- Analysis and design
- Programming
- Testing and acceptance
- Installation, implementation
- Maintenance
- Using interface design (UID)
- Appendix 1 VB .NET Terminology
- Appendix 2 VB .NET Resources

WCF

- Introduction to WCF
- OOPs and WCF
- Usage of WCF
- WCF Application and Client
- InstanceContext behavior
- Console based Hosting Environment
- Configuration File Settings

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar,HITEC City, Hyderabad .

CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com

<ul style="list-style-type: none"> • Coding classes with fields and public properties, methods and events • Instantiating objects with constructors and initializers • Linking objects with associations • Crafting classes with Visual Studio class designer • Creating shared, overloaded and extension methods 	<ul style="list-style-type: none"> • Service and Data Contracts
--	--

Pre-requisites for this Course:

This is a starter course, **no pre-requisites** required. Course includes Study Material, Interview & Certification guidance along with one Real-time Case Study.

For Free Demo / Further Clarifications, please reach us.

India: Country Code - 0091 0 9030040801(Mobile)
040 65358866(Office)

USA: Country Code - 001 (214)628-6066 (Office)

Mail: contact@sequelgate.com

Skype: [SQL School](#)

Why Choose Us?

- ✓ Complete Practical and Real-time Sessions
- ✓ Study Material and Practice Labs
- ✓ Screen-shot Based Practice Material
- ✓ Session wise notes & Doubts Clarifications
- ✓ Certification Material & Resume Preparation
- ✓ Interview Questions and Guidance
- ✓ Technical Support and Placements Assistance

SequelGate

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .

CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com



ALL OUR TRAININGS & VIDEOS ARE COMPLETELY PRACTICAL & REALTIME

Address: Sai Anu Avenue, Street Number 3, Patrika Nagar, HITEC City, Hyderabad .
CREDITS: ISO Certified Learning Center.

Phone: 040-65358866 , +91 9030040801

www.sequelgate.com