



CORSO MOC 20483

PROGRAMMING IN C#

DURATA: 4 GIORNI

PROGRAMMA

MODULE I: REVIEW OF C# SYNTAX

- Overview of Writing Applications using C#
- Datatypes, Operators, and Expressions
- C# Programming Language Constructs

MODULE II: CREATING METHODS, HANDLING EXCEPTIONS, AND MONITORING APPLICATIONS

- Creating Overloaded Methods and Using Optional and Output Parameters
- Handling Exceptions
- Creating and Invoking Methods
- Monitoring Applications

MODULE III: BASIC TYPES AND CONSTRUCTS OF VISUAL C#

- Implementing Structs and Enums
- Organizing Data into Collections
- Handling Events

MODULE IV: CREATING CLASSES AND IMPLEMENTING TYPE-SAFE COLLECTIONS

- Creating Classes
- Defining and Implementing Interfaces
- Implementing Type-safe Collections

MODULO V: CREATING A CLASS HIERARCHY BY USING INHERITANCE

- Creating Class Hierarchies
- Extending .NET Framework Classes

MODULE VI: READING AND WRITING LOCAL DATA

- Reading and Writing Files
- Serializing and Deserializing Data
- Performing I/O Using Streams

CONTACT

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MODULE VII: ACCESSING A DATABASE

- Creating and Using Entity Data Models
- Querying Data by Using LINQ

MODULE VIII: ACCESSING REMOTE DATA

- Accessing Data by Using OData Connected Services and Across the Web

MODULE IX: DESIGNING THE USER INTERFACE FOR A GRAPHICAL APPLICATION

- Using XAML to Design a User Interface
- Binding Controls to Data

MODULE X: IMPROVING APPLICATION PERFORMANCE AND RESPONSIVENESS

- Implementing Multitasking
- Performing Operations Asynchronously
- Synchronizing Concurrent Access to Data

MODULE XI: INTEGRATING WITH UNMANAGED CODE

- Creating and Using Dynamic Objects
- Managing the Lifetime of Objects and Controlling Unmanaged Resources

MODULE XII: CREATING REUSABLE TYPES AND ASSEMBLIES

- Examining Object Metadata
- Creating and Using Custom Attributes
- Generating Managed Code
- Versioning, Signing and Deploying Assemblies

MODULE XIII: ENCRYPTING AND DECRYPTING DATA

- Implementing Symmetric Encryption
- Implementing Asymmetric Encryption

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