

Training: Microsoft
MS-20483 Programming in C#

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Digital materials	950 EUR	5 days
Traditional	CTAB Tablet	1050 EUR	5 days

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING TERMS

2019-08-19 | 5 days | Kraków

2019-09-23 | 5 days | Warszawa

2019-10-14 | 5 days | Kraków

2019-12-02 | 5 days | Warszawa

TRAINING GOALS:

This training course teaches developers the programming skills that are required for developers to create Windows applications using the **C#** language. During their five days in the classroom students review the basics of **C#** program structure, language syntax, and implementation details, and then consolidate their knowledge throughout the week as they build an application that incorporates several features of the **.NET Framework 4.5**.

CONSPECT:

- Module 1: Review of C# Syntax
 - Overview of Writing Applications using C#
 - Datatypes, Operators, and Expressions
 - C# Programming Language Constructs
- Module 2: Creating Methods, Handling Exceptions, and Monitoring Applications
 - Creating and Invoking Methods
 - Creating Overloaded Methods and Using Optional and Output Parameters
 - Handling Exceptions
 - Monitoring Applications
- Module 3: Developing the Code for a Graphical Application

- Implementing Structs and Enums
- Organizing Data into Collections
- Handling Events
- Module 4: Creating Classes and Implementing Type-safe Collections
 - Creating Classes
 - Defining and Implementing Interfaces
 - Implementing Type-safe Collections
- Module 5: Creating a Class Hierarchy by Using Inheritance
 - Creating Class Hierarchies
 - Extending .NET Framework Classes
 - Creating Generic Types
- Module 6: Reading and Writing Local Data
 - Reading and Writing Files
 - Serializing and Deserializing Data
 - Performing I/O Using Streams
- Module 7: Accessing a Database
 - Creating and Using Entity Data Models
 - Querying Data by Using LINQ
 - Updating Data by Using LINQ
- Module 8: Accessing Remote Data
 - Accessing Data Across the Web
 - Accessing Data in the Cloud
- Module 9: Designing the User Interface for a Graphical Application
 - Using XAML to Design a User Interface
 - Binding Controls to Data
 - Styling a User Interface
- Module 10: Improving Application Performance and Responsiveness
 - Implementing Multitasking by using Tasks and Lambda Expressions
 - Performing Operations Asynchronously
 - Synchronizing Concurrent Access to Data
- Module 11: Integrating with Unmanaged Code
 - Creating and Using Dynamic Objects
 - Managing the Lifetime of Objects and Controlling Unmanaged Resources
- Module 12: Creating Reusable Types and Assemblies
 - Examining Object Metadata
 - Creating and Using Custom Attributes

- Generating Managed Code
- Versioning, Signing and Deploying Assemblies
- Module 13: Encrypting and Decrypting Data
 - Implementing Symmetric Encryption
 - Implementing Asymmetric Encryption

REQUIREMENTS:

- Developers attending this course should already have gained some limited experience using **C#** to complete basic programming tasks.

Difficulty level



CERTIFICATE:

The participants will obtain Microsoft certificates.

TRAINER:

Microsoft Certified Trainer.