

Microsoft .NET Framework Fundamental

Course Description

In this Course you learn how to programming .NET framework classes. This class will teach you to programming with files, text , graphics in .NET and provide you the technique to configure an .NET application also with multithreading application.

Course Level

Intermediate

Who should attend?

Programmers who want to Programming .NET Application and Support for Microsoft Exam 536

Pre-requisites

Basic understanding Basic concept of Programming .NET Application

Course Objectives

- Fundamental of Framework
- Using Input/Output Classes
- Manage Text File
- Manage Collections
- Class Serialization
- Using Graphics with .NET
- Globalization
- Using .NET Instrumentation

Course Durations

18 Hours

Course Outline

1. Framework Fundamentals

Value Types
Reference Types
Strings and String Builders
Create and Sort Arrays
Use Streams
Throw and Catch Exceptions

Hand-On Labs:

Declaring and Using Value Types
Working with Reference Types

2. Input/Output (I/O)

Navigating the File
Reading and Writing Files
Compressing Streams
Working with Isolated Storage

Hand-On Labs:

Reading and Writing Files
Enumerate Files and Watch for Changes
Compress and Decompress an Existing File
Store and Retrieve Data from Isolated

Storage

3. Searching, Modifying, and Encoding Text

Forming Regular Expressions
Expression Evaluator
Extract Matched Data
Using Regular Expressions
Use Regular Expressions
Encoding and Decoding

Hand-On Labs:

Create a Regex Summary
Read and Write an Encoded File

4. Collections and Generics

Collecting Data Items
Types of Collections
Adding and Removing Items
Sorting Items
Generic Collections
Generic Collection Class Structure

Hand-On Labs:

Sort a Table of Strings
Create and Use a Generic Collection

5. Serialization

Serializing Objects
What Is Serialization?
Choosing a Serialization Format
XML Serialization
Serialize a DataSet

Hand-On Labs:

Using XML Serialization
Serialize and Deserialize Objects

6. Graphics

Drawing Graphics
Working with Images
The Image and Bitmap Classes
Formatting Text

Control the Formatting of Text

Hand-On Labs:

Create a Method to Draw a Pie Chart
Save a Pie Chart as a Picture
Add Text to an Image

7. Installing and Configuring Applications

Configuration Settings
Creating an Installer
.NET Framework 2.0 Configuration Tool
Configuration Management

Hand-On Labs:

Get a Database Connection String
Set and Roll Back a Registry Key
Change and Restore Application Settings
Read and Write Configuration Settings

8. Globalization

Using Culture Information
CultureInfo Class
CultureTypes Enumeration
RegionInfo Class
DateTimeFormatInfo Classes
NumberFormatInfo Classes
Using the CompareInfo Class

Hand-On Labs:

Write Code that Adjusts to Culture

9. Instrumentation

Logging Event
Debugging and Tracing
Monitoring Performance
Detect Management Events

Hand-On Labs:

Implement Debugging and Tracing
Using Management Events

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