



Training Docket for MTA Exam

EXAM: 98-361 (Software Development Fundamentals)

Introduction to Programming using C#:

1. Understanding Programming
2. Variables, Data Types & Operators in C#
3. The If Statement
4. The If-Else Statement
5. The Switch Statement
6. Understanding the While Loop
7. Understanding the Do-While Loop
8. Understanding the For Loop
9. Understanding the Foreach Loop
10. Understanding Recursion
11. Arrays
12. Creating classes and methods
13. Understanding objects
14. Abstraction & Encapsulation
15. Access specifiers
16. constructors and Destructor
17. Types of Variables & their Scope
18. Inheritance
19. Understanding Structs
20. Understanding Memory Allocation
21. Understanding Abstract and Sealed Classes
22. Inheriting from the Object Class
23. Casting between Types
24. Understanding the Override and New Keywords
25. Exception Handling
26. Polymorphism
27. Abstract Classes & Interface
28. Namespaces in .NET
29. File IO

Understanding General Software Development

Understanding Data Structures

1. Understanding Arrays
2. Understanding Queues
3. Understanding Stacks
4. Linked Lists

Introduction to .NET Framework 4.0:

1. Overview of .NET Framework
2. Main components of .NET Framework and their overview,
3. .NET Framework Architecture– CLR, CTS, Cross Language Interoperability & CLS,

ASP.Net

1. Creating ASP.NET Applications, Designing Web pages
2. Server Controls
3. Validation Controls
4. Navigation Controls
5. Writing Code-behind and event handlers,
6. Working with web.config file
7. Understanding Page Life Cycle and Auto postback
8. State Management – Maintaining state using View State, Query String, Sessions State
9. ADO.NET & Data Binding
10. ADO.Net Connected and Disconnected Data Architecture
11. Using Connection, Command, Data Reader classes
12. Insert, Delete, Update & Passing parameters in queries
13. Disconnected Data, Data Adapter, Using Data Set
14. XML Data in ADO.Net
15. Web Service ASP.NET Web services, Creating a simple web service & Consuming Web service
16. Using External Web Service in ASP.NET
17. Appsettings and Connection string in web.config File
18. Understanding Internet Information Services
19. AJAX in ASP.NET
20. Deploying Web Applications

Understanding Databases

1. Understanding Databases
2. Working with SQL Queries Select, Insert, Delete, Update, alter Queries
3. Select---Where Clause , Order by Clause
4. Creating primary Key/Foreign Key