
Analyzing Requirements and Defining Microsoft .NET Solution Architectures

Duration: 5 Days **Course Code: M2710**

Overview:

This five-day instructor-led course provides delegates with the knowledge and skills needed to design Microsoft .NET-connected solutions to business problems.

Target Audience:

This course is intended for experienced developers moving into a role that requires the skills to bridge business and technology environments. Experienced developers, including those with the Microsoft Certified Application Developer (MCAD) credential, pursuing the Microsoft Certified Solution Developer (MCSD) credential.

Objectives:

- Gather and analyse information for designing a business solution.
 - Create a vision/scope document.
 - Create the conceptual design for a business solution.
 - Create the logical design for a business solution.
 - Create the physical design for a business solution.
 - Design the presentation layer of an application.
 - Design the data layer of an application.
 - Create a functional specifications document.
 - Create a technical specifications document.
 - Create a security plan.
 - Create a test plan.
 - Create a deployment plan.
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Prerequisites:

Delegates are required to meet the following prerequisites:

- A general understanding of the software development life cycle.
- Practical working knowledge of .NET development technologies.
- Familiarity with the Microsoft Solutions Framework (MSF) Process Model.
- Basic familiarity with object modelling and data modelling methodologies.
- Experience working with Microsoft Visio® Professional 2000.
- One-year experience as part of a software development team.
- In addition, it is recommended, but not required, that students complete Course M1846: Microsoft Solutions Framework Essentials, before taking this course.

Testing and Certification

Recommended as preparation for exam(s):

- Exam 070-300: Analysing Requirements and Defining Microsoft .NET Solution Architectures
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Content:

Introduction to Designing Business Solutions

- Overview of Microsoft Solutions Framework
- Phases in the MSF Process Model
- Introducing the Case Study—Adventure Works Cycles Application Gathering and Analysing Information
- Using Modeling Notations
- Creating Use Cases and Usage Scenarios
- Gathering Information
- Analyzing Information Envisioning the Solution
- The Envisioning Phase
- Creating a Vision/Scope Document
- Creating the Project Structure Document
- Analyzing RisksCreating the Conceptual Design
- An Introduction to the Planning Phase
- An Overview of the Functional Specification
- An Overview of the Conceptual Design Process
- Building the Conceptual Design
- Optimizing the Conceptual Design Creating the Logical Design
- An Overview of Logical Design
- Creating a Logical Design
- Documenting Logical Design Output
- Optimizing Logical Design Creating the Physical Design
- An Overview of Physical Design
- Physical Design Analysis
- Physical Design Rationalization
- Physical Design Implementation Designing the Presentation Layer
- Basics of User Interface Design
- Designing the User Interface
- Designing User Process ComponentsDesigning the Data Layer
- Designing the Data Store
- Optimizing Data Access
- Implementing Data Validation Designing Security Specifications
- Overview of Security in Application Development
- Planning for Application Security
- Using the .NET Framework Security Features
- Designing Authorization, Authentication, and Auditing Strategies Completing the Planning Phase
- Incorporating Design Considerations
- Planning for Administrative Features
- Planning for Future Phases
- Creating the Technical Specifications Stabilising and Deploying the Solution
- The MSF Stabilizing Phase
- Testing and Piloting for Stabilization
- The MSF Deploying Phase
- Deploying to a Production Environment

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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