

Code & Test Smarter with Design Patterns

Duration: 5 Days Course Code: GK2340

Overview:

In this course, you will learn how to identify problems that occur repeatedly in your code, and solve those problems in a standardized way. Learn about the design pattern concept; which is a programming solution or template that can be used in many different situations. You'll also discover new tools for creating successful software.

You'll get answers to these questions: What constitutes a design pattern? How do I write code that can adapt to change? How can I identify code that needs changing, and which patterns to apply to anticipate the next stage of development? How can I best implement the Gang of Four design patterns with .NET technology? How to approach unit testing and test driven development, utilising design patterns?

Target Audience:

Developers who want to construct better distributed applications using collective real-world knowledge

Objectives:

- Rationale behind design patterns
- Basics of Unified Modeling Language (UML)
- How best to apply design patterns to .NET to effectively leverage the framework
- Learn how to write code that is testable by leveraging design patterns
- Refactor code to use the most appropriate pattern
- Implement and code patterns such as Singleton, Factory, Decorator, Strategy, Command, Iterator, Visitor, Composite, Adapter and Façade to name a few

Prerequisites:

- Demonstrate proficiency in object-oriented programming techniques
- .NET experience

Content:

- Introduction to Design Patterns using UML
 - Concepts
- Adapter and Façade
- Singleton
- Creation Patterns
- Observer
- Strategy and Template

- Iterator, Composite, and Visitor
- Decorator
- Command
- State
- Proxy, Interceptor
- ORMs and Repository Pattern
- MVC
- Getting Started with Test Driven Development
- Designing Code for Testing
- Using Test Doubles to Isolate Code

Further Information:

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

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