
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:

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

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| ■ Demonstrate proficiency in object-oriented programming techniques | |
| ■ .NET experience | |
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Content:

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| ■ Introduction to Design Patterns using UML Concepts | ■ Iterator, Composite, and Visitor | ■ MVC |
| ■ Adapter and Façade | ■ Decorator | ■ Getting Started with Test Driven Development |
| ■ Singleton | ■ Command | ■ Designing Code for Testing |
| ■ Creation Patterns | ■ State | ■ Using Test Doubles to Isolate Code |
| ■ Observer | ■ Proxy, Interceptor | |
| ■ Strategy and Template | ■ ORMs and Repository Pattern | |
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Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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