



# Design Patterns Using Kotlin

## HRDC Reg No - 10001304429

**HRDC Fully Claimable Training**

**DESIGNED FOR**

Software Developers, Professionals, Kotlin  
Enthusiasts and Students

**Who** are looking to enhance their understanding of  
design patterns



28 - 29 August



09 AM - 5 PM



AC hotel, Marriott,  
Penang, Malaysia

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# Mastering Design Patterns in Kotlin: Elevate Your Coding Proficiency for outstanding Software Development

## Who is this course for?


This course is tailored for Kotlin developers seeking to enhance their programming prowess by mastering design patterns. Whether you're a seasoned developer looking to refine your skills or an intermediate Kotlin enthusiast eager to take your coding abilities to the next level, this training is designed for you. It's ideal for those who wish to strengthen their understanding of Kotlin's design patterns and leverage them effectively in their software development projects.


## Why you should join?


Design patterns are indispensable tools in software development, offering time-tested solutions to common programming challenges. By mastering design patterns in Kotlin, developers can significantly improve the efficiency, readability, and maintainability of their code.

## What We Offer:

In our Design Patterns using Kotlin course, you'll receive:

 **Comprehensive Coverage:** Delve into the world of design patterns in Kotlin, covering Creational, Structural, and Behavioral patterns, along with their real-world applications in popular Kotlin libraries and frameworks.

 **Practical Implementation:** Learn to identify situations where design patterns can be applied, understand their advantages and disadvantages, and implement them effectively in your own Kotlin projects.

 **Solid Understanding:** Gain insights into SOLID Design Principles and best practices for using design patterns to improve code quality and maintainability in Kotlin development.

## Course Outline

1. Software Design and Challenges
2. SOLID Design Principles
  - 2.1. Single Responsibility Principle (SRP)
  - 2.2. Open-Closed Principle (OCP)
  - 2.3. Liskov Substitution Principle (LSP)
  - 2.4. Interface Segregation Principle (ISP)
  - 2.5. Dependency Inversion Principle (DIP)
3. Creational Design Patterns
  - 3.1. Singleton
  - 3.2. Prototype
  - 3.3. Factory
  - 3.4. Abstract Factory
  - 3.5. Builder
  - 3.6. Object Pool
4. Structural Design Patterns
  - 4.1. Adapter
  - 4.2. Bridge
  - 4.3. Composite
  - 4.4. Decorator
  - 4.5. Façade
5. Behavioral Design Patterns
  - 5.1. Chain of Responsibility
  - 5.2. Command
  - 5.3. Observer
  - 5.4. State
  - 5.5. Visitor
  - 5.6. Strategy

### Pre-Requisites:

Kotlin Language Knowledge  
Basic Android SDK Knowledge

### Duration : 2 Days

## By the end of this course!

### YOU WILL GAIN:

- ✂ Mastery of Creational, Structural, and Behavioral patterns in Kotlin, enabling you to identify opportunities, grasp benefits and drawbacks, and seamlessly integrate them into projects.
- ✂ Advanced troubleshooting techniques for efficient identification and resolution of pattern-related issues.
- ✂ Strategies to enhance code robustness, scalability, and maintainability through design patterns.
- ✂ Best practices for incorporating cutting-edge Kotlin features and industry trends into your design pattern implementations.

### If you struggle with:

- ✂ Achieving optimal code efficiency and maintainability in your Kotlin projects.
- ✂ Addressing complex software design challenges and ensuring compatibility across components.
- ✂ Keeping pace with the evolving landscape of design patterns and Kotlin language features.
- ✂ Ensuring scalability and flexibility in your software architecture and design decisions.
- ✂ Maximizing the effectiveness of your design pattern implementations in real-world projects.

## Implementing our Design Patterns using Kotlin course will lead to:

- ✓ Streamlined development processes and quicker adoption of design patterns in your Kotlin projects.
- ✓ Enhanced code quality, reliability, and maintainability, resulting in improved project outcomes.
- ✓ Improved efficiency and resource utilization in Kotlin software development and maintenance.
- ✓ Access to specialized expertise and guidance from experienced Kotlin professionals.
- ✓ Increased competitiveness and innovation in your software solutions built with Kotlin design patterns.

## Timmins Training Consulting

Timmins Training is a leading provider of training services in Malaysia, offering HRDC Claimable Trainings, Corporate Trainings, Corporate Onboarding Training, and Consulting services.

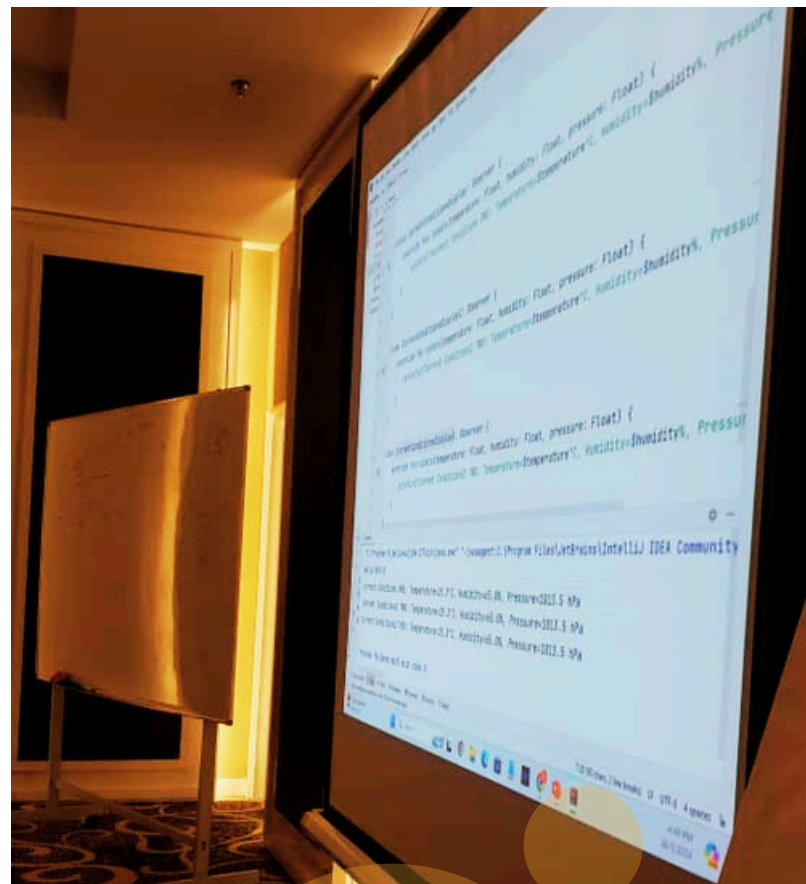
With over 8 years of experience, we serve various domains including Embedded Software Development, Full Stack Development, Mobile App Development, 5G, Business Intelligence, and more.

Our trainers are subject-matter experts with years of hands-on experience in their specialized areas. They bring practical insights to help you excel in your journey.

Empower yourself with Timmins Training Consulting and elevate your Kotlin skills to new heights!

# CONTACT US!

## Secure Your Spot!



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