



# Certified Kotlin Developer

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## Certified Kotlin Developer

Kotlin is a statically typed programming language running on the Java virtual machine with option of Kotlin program, to be compiled to JavaScript as well.

It is the only officially supported language on Android besides Java.

Kotlin allows you to write highly expressive, understandable and safe code -- while being 100% interoperable with Java. You can use any Java classes and methods from Kotlin and the other way around. Kotlin improves your Android app code by writing null-safe, concise, and readable code using higher-order extension functions thus, speeds up your development workflow.

\* **Knowledge of Java programming language and Android is essential.**

### Why should one take this certification?

Development and usage of Kotlin has increased especially after Google made it the official programming language for Android.

Mobile application developers, software engineers, managers or team leads should take this certification to showcase their skills in Kotlin and be abreast of the new developments in Android and Java development

### Who will benefit from taking this certification?

The certification is suitable for students to showcase their knowledge on modern programming language. Certification is also apt for software team leads, mobile application developers, software engineers and managers, to

### Test Details

- **Duration:** 60 minutes
- **No. of questions:** 50
- **Maximum marks:** 50, Passing marks: 25 (50%)

There is no negative marking in this module.

### Fee Structure

Rs. 5,999/- (Excludes taxes)\*

\*Fees may change without prior notice, please refer <http://www.vskills.in> for updated fees

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## **1. Kotlin Pre-requisites**

- 1.1 Introduction
- 1.2 Install the Java JDK 8
- 1.3 Install Android Studio
- 1.4 Set Up a Project in Android Studio

## **2. Kotlin Basics**

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- 2.2 Variables and Data Types
- 2.3 Null Safety in Kotlin
- 2.4 Conditionals: "if" Expressions
- 2.5 Conditionals: "when" Expressions
- 2.6 Collections
- 2.7 "for" Loops
- 2.8 "while" Loops
- 2.9 Functions
- 2.10 Get Ready for Serious Kotlin Coding (Set up IntelliJ IDEA)
- 2.11 Create a main() Function
- 2.12 Named Arguments & Default Parameter Values
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- 3.9 Lazy Sequences
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- 3.11 Code Along: Infinite Lazy Sequence of All Prime Numbers
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- 5.3 Understand the Android Versions
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- 5.5 Use the "Kotlin Android Extensions"

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- 6.4 Implement the "HabitsAdapter"

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- 7.3 Add a Second Activity
- 7.4 Use Intents to Switch Activities
- 7.5 Challenge Solution
- 7.6 Let Users Choose an Image
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- 7.9 Code Along: An Extension Function for "EditText"

## **8. Kotlin and SQLite**

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- 8.3 Define the Contracts
- 8.4 Implement the Database Helper
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- 8.7 Clean Code: Improving Transactions in Kotlin
- 8.8 Clean Code: Further Improving Transactions and Performance
- 8.9 Store the Habit in "CreateHabitActivity"
- 8.10 Read All Habits from SQLite
- 8.11 Challenge Solution
- 8.12 Challenge Solution
- 8.13 Add Files to the Virtual Device

## Certifications

- ▶ **Accounting, Banking & Finance**
  - Certified GST Professional
  - Certified AML-KYC Compliance Officer
  - Certified Business Accountant
  - Certified BASEL III Professional
  - Certified GAAP Accounting Standards Professional
  - Certified Treasury Markets Professional
- ▶ **Big Data**
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  - Certified Cloud Computing Professional
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- ▶ **Digital Media**
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  - Certified Inbound Marketing Professional
  - Certified Digital Marketing Professional
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  - Certified Export Import (Foreign Trade) Professional
- ▶ **Health, Nutrition and Well Being**
  - Certified Fitness Instructor
- ▶ **Hospitality**
  - Certified Restaurant Team Member (Hospitality)
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  - Certified HR Staffing Manager
  - Certified Human Resources Manager
  - Certified Performance Appraisal Manager
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  - Certified Scrum Specialist
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  - Certified Marketing Manager
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  - Certified Six Sigma Black Belt Professional
  - Certified TQM Professional
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  - Certified Logistics & SCM Professional
  - Certified Supply Chain Management Professional
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  - Certified IPR & Legal Manager
  - Certified Labour Law Analyst
  - Certified Business Law Analyst
  - Certified Corporate Law Analyst
- ▶ **Information Technology**
  - Certified Angular JS Professional
  - Certified Basic Network Support Professional
  - Certified Business Intelligence Professional
  - Certified Core Java Developer
  - Certified E-commerce Professional
  - Certified IT Support Professional
  - Certified PHP Professional
  - Certified Selenium Professional
- ▶ **Mobile Application Development**
  - Certified Android Apps Developer
  - Certified iPhone Apps Developer
- ▶ **Security**
  - Certified Ethical Hacking and Security Professional
  - Certified Network Security Professional
- ▶ **Management**
  - Certified Corporate Governance Professional
  - Certified Corporate Social Responsibility Professional
  - Certified Leadership Skills Professional
- ▶ **Life Skills**
  - Certified Business Communication Specialist
  - Certified Public Relations Officer
- ▶ **Media**
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  - Certified Advertising Sales Professional
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& many more job related certifications

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