



# Certificate in TestNG

**Vskills Certifications**

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## Certificate in TestNG

TestNG is a testing framework for Java applications. It is an open-source testing framework that allows developers to write and run tests in an organized and efficient way. TestNG is inspired by JUnit and NUnit, but it provides some additional functionality and flexibility, such as support for data-driven testing, parallel testing, and test grouping. TestNG is widely used in the industry for unit testing, integration testing, and functional testing of Java applications. It can be integrated with tools like Eclipse, IntelliJ IDEA, and Maven to automate the testing process and generate test reports.

Note: Please note that the course comes with online e-learning (videos) only. No hard copy will be provided.

### Why should one take Certificate in TestNG?

TestNG is widely adopted in the software development industry, particularly in the Java ecosystem. Many organizations use TestNG for unit testing, integration testing, and functional testing of their software applications.

TestNG provides the benefits of

- A flexible and powerful testing framework to create and run tests in a variety of ways like data-driven testing, parallel testing, and grouping of tests.
- TestNG integrates with other popular tools and frameworks such as Eclipse, IntelliJ IDEA, and Maven.
- TestNG generates detailed reports on test execution results, including information on test pass/fail status, execution times, and logs.
- TestNG provides a way to manage and organize test suites and individual tests, making it easy to track progress and ensure that all tests are running correctly.

Vskills Certificate in provides a hands-on approach to understand the nuances of TestNG as well as understand TestNG to design and execute effective automated tests.

The certification attests to your understanding and applying skills and knowledge in and helps you to stand out amongst your peers to help in gaining better career prospects.

The certification covers

- Basic Annotations in TestNG
- TestNG XML Files
- Page Object Model

### Who will benefit from taking Certificate in TestNG?

Test automation engineers, Java developers, Quality assurance (QA) professionals, Software testing professionals or anyone interested in test automation, will benefit immensely with Vskills Certificate in TestNG and will be able to demonstrate their expertise in the framework and their ability to design and execute effective automated tests.

Students taking the certification also gain by showcasing their understanding of TestNG and are able to increase their job opportunities.

### 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. 3,499/- (Excludes taxes)\*

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

### Companies that hire Vskills Certificate in TestNG Professionals

Companies specializing in software testing or software development are constantly hiring skilled TestNG Testers. IT companies, MNCs hire TestNG Testing professionals for application testing related tasks. Companies employing TestNG professionals include Google, TCS, Accenture, IBM, Tech Mahindra, GE, Amex, Deloitte, Wipro, TCS, etc.

In addition to these larger companies, many smaller and mid-sized companies also use TestNG for automated testing and may hire professionals with TestNG expertise. TestNG is widely used in the Java ecosystem, so companies that use Java for software development are more likely to seek professionals with TestNG skills. TestNG professionals can work in roles such as Test Automation Engineers, Quality Assurance Analysts, Software Testers, and Software Engineers, among others.

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## **1. Getting Started with TestNG**

- 1.1 Introduction
- 1.2 TestNG Installation
- 1.3 Automating the First TestNG Test
- 1.4 TestNG Assertions
- 1.5 Hard Versus Soft Assertions

## **2. Basic Annotations in TestNG**

- 2.1 BeforeMethod and AfterMethod Annotations
- 2.2 BeforeClass and AfterClass Annotations

## **3. TestNG XML Files (Test Execution Management)**

- 3.1 Managing Test Execution Using TestNG XML Files
- 3.2 Include and Exclude Methods in XML File

## **4. Advanced Annotations in TestNG**

- 4.1 BeforeTest and AfterTest Annotations
- 4.2 BeforeSuite and AfterSuite Annotations

## **5. Page Object Model and Page Factory**

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- 5.2 How to Add List &lt;WebElement> in Page Factory
- 5.3 Initializing Page Factory Elements
- 5.4 Page Object Model

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- 6.2 Creating Page Library
- 6.3 Creating Flow Library

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- 7.2 TestNG Parameters
- 7.3 Managing Test Dependencies in TestNG
- 7.4 Ignoring Tests in TestNG

## **8. Running Test in Parallel**

8.1 Parallel Execution in TestNG

8.2 TestNG HTML Reports

## **9. Data-Driven Testing**

9.1 Data Provider in TestNG

## Certifications

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  - Certified GST Professional
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  - Certified Business Accountant
  - Certified BASEL III Professional
  - Certified GAAP Accounting Standards Professional
  - Certified Treasury Markets Professional
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  - Certified Inbound Marketing Professional
  - Certified Digital Marketing Professional
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  - Certified Selenium Professional
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  - Certified iPhone Apps Developer
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  - Certified Network Security Professional
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  - Certified Corporate Social Responsibility Professional
  - Certified Leadership Skills Professional
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  - 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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