

# Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503)

**Duration:** 24.00 hours (3 days)

**19.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

Test Driven Development (TDD) and Unit Testing Essentials is a three-day, comprehensive hands-on test-driven development / JUnit / TDD training course geared for developers who need to get up and running with essential Test-driven development programming skills using JUnit and various open-source testing frameworks. Throughout the course you'll learn, explore and gain practical experience working with best practices for writing great programs in Java, using test-driven development techniques. This course quickly introduces you to the core features and benefits of JUnit. You'll leave this course armed with the skills required to leverage solid test driven development and unit testing techniques, using the latest industry techniques and best practices. Throughout the course, you'll work on a project with labs specifically oriented towards using TDD to implement a complex and multi-faceted web application that uses a database in its final form.

## About This Course

Test Driven Development (TDD) and Unit Testing Essentials is a three-day, comprehensive hands-on test-driven development / JUnit / TDD training course geared for developers who need to get up and running with essential Test-driven development programming skills using JUnit and various open-source testing frameworks. Throughout the course you'll learn, explore and gain practical experience working with best practices for writing great programs in Java, using test-driven development techniques. This course quickly introduces you to the core features and benefits of JUnit. You'll leave this course armed with the skills required to leverage solid test driven development and unit testing techniques, using the latest industry techniques and best practices. Throughout the course, you'll work on a project with labs specifically oriented towards using TDD to implement a complex and multi-faceted web application that uses a database in its final form.

## Who Should Attend

This programming course is for students with hands-on Java development experience. Attending titles may include Software Developers and Programmers, Agile Practitioners, Quality Assurance Professionals, Software Testers, Product Owners, Project Managers, IT Managers or Software Engineers.

# Learning Outcomes

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## **Upon successful completion of this course, participants will be able to:**

Working in a hands-on learning environment, guided by our expert team, you'll explore:

The role of Unit Testing in software development and testing

How to write effective Unit Testing

The properties of effective unit tests

The benefits of the test-first and Test-Driven Development

Techniques and practices to aid in the successful adoption of Test-Driven Development

JUnit and the JUnit Test Runner interface.

How to use JUnit to drive the implementation of Java code.

The role of debugging when done in conjunction with tests.

The fundamentals of the TDD using Java, as well as its importance, uses, strengths and weaknesses.

Understand how JUnit affects your perspective on development and increases your focus on a task.

Good JUnit coding style.

How to Create well-structured JUnit programs.

How to Compile and execute programs using JUnit and DBUnit

How to extend testing with mock objects using Mockito.

Refactoring techniques available to make code as reusable/robust as possible.

Various testing techniques.

## Additional Course Details

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Nexus Humans Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

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## **Q: What delivery options are available for Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503)?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
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## **Q: How many CPD hours does this course provide?**

The 3-day Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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## **Q: What is the duration of the Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503) training?**

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503)?**

Yes, we provide corporate training, dedicated training, and closed classes for Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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## Q: Why choose Nexus Human for Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:


- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

## Q: Are there any discount codes available?


Yes! Use discount code **PENPALS** when booking your Test Driven Development (TDD) and Unit Testing Essentials | Mocking, JUnit, Refactoring, Best Practices & More (TT3503) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

## Nexus Human

### Professional Training & Development

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