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Sign up

Vitest training: Automate your tests

2 days (14 hours)

PRESENTATION

Our Vitest training course will enable you to improve the quality of your code and facilitate the automation of your unit tests. You'll be able to easily test your Java, Kotlin and Android applications to guarantee the quality of your code.

In this training course for developers, you'll learn how to use Vitest's main functions.

Such as unit test creation, test execution and report generation.

You'll also discover how to integrate Vitest with other technologies such as development frameworks and continuous integration tools to improve code quality and accelerate application delivery.

This training course will introduce you to the full range of Vitest functionalities, with particular emphasis on best practices in [unit testing](#), code validation and continuous integration.

You'll also learn how to configure your unit tests for specific environments, such as Android development or Spring-based applications.

As with all our training courses, this one will introduce you to the latest stable version: [Vitest 0.29](#).

Objectives

- Understanding the Vitest ecosystem
- Create unit tests to validate code behavior
- Run unit tests and generate reports

Target audience

- Developers
- Technical architects
- Project managers

Prerequisites

No prerequisites required.

Vitest training program

Introduction

- What is Vitest and why use it?
- Installing and configuring the Vitest environment
- Using basic commands
- The different types of test
 - Unitary
 - Integration
 - Functional

Vitest basics

- Write and run a first unit test
- Assertions
- Annotations
- Mocks
- Parameters
- The exceptions

Performance tests

- Introduction to performance testing
- Performance measurement
- Analysis of test results
- Performance optimization

Integration testing

- Compatible development frameworks
 - Spring
 - JUnit
 - Mockito
- Continuous integration tools
- Integration testing
- Scenario creation
- Analysis of integration test results

End-to-end testing

- Introduction to end-to-end testing
- End-to-end test execution with Vitest
- Results analysis

Vitest's advanced features

- Parameterized tests
 - Data sets
- Performance testing
- Load testing
- Safety tests
- Regression testing
- Accounting tests
- Robustness testing
- Exploratory tests

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.