

Test Automation: Selenium, TestNG & REST Assured

Learn to automate web and API testing using Selenium WebDriver, TestNG and REST Assured, from setup to execution.

4 Days

32 HOURS

5

MODULES

31

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of the software development, testing and defect life cycles, along with testing types, levels and techniques. It then introduces test automation concepts, including tool evaluation, automation architecture and framework development. Learners work with Selenium WebDriver to locate and interact with web elements, manage synchronisation and use the JavaScript executor, before applying TestNG for annotations, test prioritisation, grouping, parallel execution and parametrisation. The course closes with REST Assured, covering API requests, response validation and authentication.

WHO THIS COURSE IS FOR

Test Automation Engineers

QA Engineers

Software Testers

API Testers

Test Leads

LEARNING OBJECTIVES

- Explain the software development, testing and defect life cycles
- Describe types, levels and techniques of testing
- Identify the purpose, advantages and disadvantages of test automation
- Evaluate tools for test automation and select an approach
- Apply Selenium WebDriver to locate and interact with web elements
- Configure TestNG annotations, grouping and parallel test execution
- Implement parametrisation of test cases using TestNG
- Develop REST API tests with REST Assured, including authentication

5 Modules, 31 Topics

01

ISTQB Basic

TOPICS

- Software Development Life Cycle
- Software Testing Life Cycle
- Software Defect Life Cycle
- Types of Testing (Static Testing, Dynamic Testing / Functional, NonFunctional)
- Levels Of Testing
- Testing Techniques

02

Automation Basic

TOPICS

Purpose Of Test Automation · Advantage Of Test Automation · Disadvantage Of Test Automation · Tool Evaluation and Selection · Test Automation Architecture · TAS/TAF Development

03

Selenium WebDriver

TOPICS

- Setting up a project in Eclipse with Maven
- Selenium IDE/Selenium Grid/Selenium WebDriver
- Locating WebElements using WebDriver
- Interacting with WebElements
- Different Available WebDrivers
- Synchronization
- JavaScript Executor

04

TestNG

TOPICS

Testng Annotations · Prioritizing Test cases · Grouping Test cases · Parallel Testing using TestNG · Parametrization

05

RestAssured

TOPICS

- Configure Eclipse with Rest Assured
- GET, POST, PUT and Delete Request using Rest Assured
- REST API Test using Rest Assured
- Validate Response Status using Rest Assured
- Validate Response Header using Rest Assured
- Read JSON Response Body using Rest Assured
- Authentication in Rest Assured

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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