



Introduction to Cucumber & Cucumber Testing Essentials (TT3650)

Quick Start to Web Testing with Cucumber (with Selenium and Gherkin Basics)

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Course Snapshot

- **Course: Introduction to Cucumber and Cucumber Testing Essentials (TT3650)**
- **Duration:** 2 days
- **Skill Level:** Introduction to Cucumber for experienced Testers
- **Focus:** Learning to use Cucumber to support Behavior-Driven Development
- **Targeted Audience:** Test Engineers, QA, Management. Some familiarity with basic Java syntax and basic Selenium would be helpful.
- **Hands-on Learning:** This course is approximately **50% hands-on**, combining expert lecture, real-world demonstrations and group discussions with machine-based labs and exercises. Student machines are required.
- **Language:** This course examples are in Java. This course is also available for Node.JS and .Net. Please inquire for details.
- **Delivery Options:** This course is available for **onsite private classroom presentation, live online virtual presentation**, or can be presented in a **flexible blended learning format** for combined onsite and remote attendees. Please also ask about our **Self-Paced / Video** or **QuickSkills / Short Course** options.
- **Public Schedule:** This course has active dates on our live-online open enrollment **Public Schedule**.
- **Customizable:** This course agenda, topics and labs can be further adjusted to target your specific training skills objectives, tools and learning goals. Please inquire for details.

Overview

Cucumber Testing Essentials is a two-day hands-on Cucumber training course that will provides students with a solid understanding of practical BDD concepts using Cucumber and Gherkin to drive consistent functional and non-functional tests as part of the regular build process. Students will learn the core API, tools, and how to work with them together to create powerful testing harnesses.

BDD is a process that defines features and executable specifications that are expressed using Cucumber and Gherkin. To properly showcase the practical application of BDD throughout this course, implementations of the features and behaviors must be developed and tested. This course leverages Java implementations and testing to transform the features into implemented functionality. As such, it is helpful if incoming students know Java. There is no training on Java in this course. If students do not have a background in Java, they will run the solutions to verify implementation and walk through the practical use of BDD.

Learning Objectives

This “skills-centric” course is about **50% hands-on lab and 50% lecture**, designed to train attendees in core Cucumber and web testing skills, coupling the most current, effective techniques with the soundest industry practices. Throughout the course students will be led through a series of progressively advanced topics, where each topic consists of lecture, group discussion, comprehensive hands-on lab exercises and review.

This course provides indoctrination in the practical use of the umbrella of technologies that are on the leading edge of test engineering. Working in a hands-on learning environment, led by our expert practitioner, students will learn:

- Test-Driven and Behavior-Driven Testing concepts
- The concept of refining requirements into executable specifications
- How BDD, Cucumber, and Gherkin work together
- Transform requirements into features and feature files
- Creating step definitions
- Using Cucumber and Gherkin to test services
- How to manage Cucumber and improve the organization of scenarios
- Testing the controller and service layers of an application
- How to use Selenium to test web applications
- Using BDD, Cucumber, and Selenium to test web interfaces

Need different skills or topics? If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional testing, Selenium, Cucumber, Gherkin, Python, TDD, BDD, programming, testing tools, test automation, QA, services, security and other related topics that may be blended with this course for a track that best suits your needs. Our team will collaborate with you to understand your needs and will target the course to focus on your specific learning objectives and goals.

Audience & Pre-Requisites

This is an **introductory -level** course, designed for experienced test engineers that are familiar with Java, who wish to get up and running on testing web applications.

Take Before: For some of the labs, attendees should have some familiarity with basic Java syntax prior to attending this class. Basic Java fundamentals are NOT covered this course. For attendees who are light on Java skills, code may be copied and pasted to complete those exercises. We recommend attendees have the skills in the course listed below, or attend this course as a pre-requisite:

- TT2190 Basic Java Syntax Primer for Non-Developers
- TT3610 Introduction to Selenium | Selenium Web Testing (3 days)

Related Courses

- TT2190 Basic Java Syntax Primer for Non-Developers (QA, Testers,) (2 days)
- TT3610 Introduction to Selenium | Selenium Web Testing (3 days)
- TT3611 Manual Web Testing with Selenium (1 day)
- TT3612 Automated Web Testing with Selenium WebDriver (3 days)
- TT3618 Test Automation Fundamentals: Selenium, Cucumber, Gherkin and Maven (5 days)
- TT3619 Remote Test Automation with Selenium Grid
- TT3620 Parallel Web Testing with Selenium Grid & Docker
- TT3650 Introduction to Cucumber & Cucumber Testing Essentials (2 days)
- TT3654 Test Automation with BDD using Cucumber, Gherkin, Selenium & More (4 days)
- TT3540 Agile Continuous Integration, Testing, and Deployment (CI, Refactoring, GIT, BitBucket & More) (3 days)
- Please see our complete **Course Catalog** for additional related course titles and Learning Paths.

Enhanced Learning Services: Please also ask about our **Pre-Training Class OnRamp & Prep / Primer** offerings, **Skills Gap Assessment Services, Case Studies, Knowledge Check Quizzes, Skills Immersion Programs & Camps, Collaborative Mentoring Services** and **Extended Learning Support & Post Training** services.

Course Topics / Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We'll work with you to tune this course and level of coverage to target the skills you need most. Topics, agenda and labs may adjust during live delivery based on audience skill-level, needs and participation.

Session: BDD and Cucumber Fundamentals

Lesson: BDD and Testing

- Understanding BDD
- Requirements and BDD
- Requirements to Features
- Features to Stories
- Executable Acceptance Criteria

Lesson: Cucumber Overview

- Feature Files
- Step Definitions
- Cucumber and JUnit

- Implementing and Testing Features
- [Lab: Creating and Using a Features File](#)

Lesson: Executable Specifications

- Gherkin Keywords
- Feature, Background, Scenario
- Given, When, and other Gherkin concepts
- A detailed look at Step Definition
- The use of Step Definition Files
- [Lab: Cucumber Step Definition](#)
- [Lab: BDD for Echo Messaging](#)

Service

Session: Gherkin and Cucumber

Lesson: Step Definitions

- Steps and Step Definitions
- Capturing Groups and Arguments
- Returned Results: Success to Ambiguous
- Resolving Collisions
- Organizational Techniques
- [Lab: BDD for Calculator Service](#)

Lesson: Managing Cucumber

- Cucumber Runtime Options

- Working with Plugins
- Filtering Scenarios
- Cucumber Profiles
- Automating Cucumber

Lesson: Working with Non-UI Applications

- Challenges Testing the UI
- Testing at Controller and Service Layers
- Testing Business Logic
- Working with Legacy Applications

- Testing Non-Functional Requirements
- [Lab: BDD for a Movie Service](#)
- [Lab: BDD for a Grocery Service](#)

Lesson: Working with the Web: Selenium

- Selenium Overview
- Java, JUnit, and Selenium
- Handling Exceptions
- Web Page Locators
- Working with Forms

Supplemental Cucumber Labs

Students will also develop and run tests against several active web pages: *

- [Search for flights on Southwest](#)
- [Search for flights on Hotwire](#)
- [Search for home lending options on Chase](#)
- [Shop at Walmart](#)
- [Login to Facebook](#)

Student Materials & Hands-on Setup

Course Materials: Each student will receive a **Student Guide** with course notes, code samples, software tutorials, step-by-step written lab instructions, diagrams and related reference materials and links (as applicable). Students will also receive the project files (or code, if applicable) and solutions required for the hands-on work.

Setup Made Simple! Our dedicated tech team will work with you to **ensure your student machines and learning environment is setup, tested and ready to go** well in advance of the course delivery date, ensuring a smooth start to class and seamless hands-on experience for your students. We offer several flexible student machine setup options including **guided manual set up** for simple installation directly on student machines, or **cloud based / remote hosted lab solutions** where students can log in to a complete separate lab environment minus any installations, or we can supply **complete turn-key, pre-loaded equipment** to bring ready-to-go student machines to your students or in-person facility. Please inquire for details.

For More Information

Need dedicated training? All courses can be presented **onsite** or **online**, or in a **combined / flex / blended learning format**, tailored to target your specific audience, needs and learning goals. We also offer focused, flexible **short courses, self-paced learning options, recorded sessions** and more. We train beginner to advanced skills in all areas we cover, and offer **New Hire / Cohort Training, Boot Camps, Skills Immersion Programs, Reskilling Programs, Skills Migration & Transition Programs**, and more. We collaborate with you to ensure all courses are truly targeted to meet your specific needs and learning skills, maximizing your valuable training time, as well as your important budget.

Please also visit our extensive **Public Training Schedule** for training for smaller groups or individuals. Please contact us for course details, **Corporate Rates** and **Special Discount Offers**.

For more information about our dedicated training services, collaborative mentoring services, courseware licensing options, courseware development services, public course schedule, training management services, partner and reseller programs, or to see our complete list of course offerings and special offers please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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