AMBIENT-IT

+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

Updated on 05/11/2025

Register

# Cucumber training: BDD

3 days (21 hours)

## Overview

**Behavior-driven development** (BDD) is a set of practices aimed at reducing communication gaps between team members, promoting a better understanding of the customer, and encouraging continuous communication using real-world examples.

Cucumber is a tool that supports **behavior-driven development**. Cucumber reads executable specifications written in plain text and validates that the software does what those specifications say. The specifications include several examples or scenarios. Each scenario is a list of steps for Cucumber to follow. It verifies that the software complies with the specification and generates a report indicating the success or failure of each scenario. In order for Cucumber to understand the scenarios, it must follow certain basic syntax rules, called Gherkin.

Like all our training courses, this one will introduce you to the latest stable version and its new features, namely Cucumber Gherkin v29.

## Objectives

- Understand BDD
- Understand how Cucumber works
- Learn the Gherkin syntax

## Target audience

Developers, JavaScript developers, testers

## Prerequisites

Basic knowledge of JavaScript.

# Cucumber & Gherkin training program

## Introduction

- The importance of acceptance testing and automation
- Introduction to BDD (Behavior-Driven Development) concepts and comparison with TDD (Test-Driven Development)
- Importance of domain language
- What is "Gherkin" syntax and how does it work?

## Installing Cucumber (prerequisite)

- Installing node.js LTS and Cucumber in operational conditions for the project
- Creating the project and importing VSCode (or other)
- Understanding the package.json file and its dependencies for this execution context

## Getting started with Cucumber

- How Cucumber works
- Understanding the use of Cucumber scenarios
- Feature files and the importance of StepDefinition in Cucumber
- Understanding the concept of "glue code" for a Feature file
- The importance of clean code for good test maintenance
- Running tests with different runners (IDE, command line, etc.).

## Advanced features of Cucumber

- The importance of regular expressions in Feature files
- How to reuse functions with different data
- Data-driven tests with tables
- Using tags for better control over test execution
- Optimizing and securing tests with hooks
- More complex test scenarios with the help of Background
- Cucumber execution reports
- Generating Cucumber Scenario Reports
- Cucumber report generation configuration and options

## Integration with Jenkins

- Introduction to Continuous Integration and Continuous Delivery concepts
- Importance of automated testing in the CI/CD approach
- Configuring GitHub or Gitlab for a build with Cucumber tests
- Running tests in GitHub or Gitlab
- Viewing test reports from GitHub or Gitlab

## Additional module in English on request (+2 days)

- Training language: English
- Course level: Beginner to intermediate

## Target Audience

- Product Owners, Business Analysts
- Architects, Senior Programmers, Testers
- Technical Managers, Technical Writers, User Experience Designers

## Training methodology

- Frontal, Interactive discussions, working on audience’s or predefined examples, group workshops, coaching

## Day 1

## 1st Session Teaching

- Explaining the principles of the Behavior Driven Development approach, scenarios, roles, personas, user journey, etc., using the example of a website application with user and API interaction.
- Identifying real examples from the company.
- Self-organized forming of interdisciplinary groups of 3-4 people
- Groups select 2-3 topics they would like to work on

## 2nd Session Workshop

- Short presentation of the topics the group has chosen, to ensure all work on different topics covering the most important aspects
- Individual group work with coaching Allowing the right amount of time needed to complete the tasks
- Presentation and discussion in the plenary session
- Informal exchange of thoughts

### 3rd Session Workshop

- Repeat 2nd session or continue work from 1st session

### Q&A

- Answering individual questions
- Feedback
- Requests for 2nd day

### “Homework” (~1 week)

- Participants apply learnings in their projects
- Identify learning contents and open questions
- In order to prepare, please send special requests 3 days before day 2

### Day 2 (after Homework ~1 week) 1st

### Session Teaching

- Deepen knowledge based on “homework”
- Answering individual questions
- Addressing special topics
- Informal discussions

### 2-3 Sessions Workshops

- Like day 1 with new mix of groups and topics

### Q&A

- Answering individual questions
- Feedback

## Companies involved

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

## Placement at the start of training

The placement test at the start of the training course complies with Qualiopi quality criteria. Once they have finalized their registration, learners receive a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training course, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

## Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

## Organization

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

## Validation

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

## Certification

A certificate will be issued to each trainee who has completed the entire training course.


Training organization registered under number 11 75 54743 75. This registration does not constitute state approval.
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