

ENDAVA INTERNSHIP PROGRAMME | SPRING 2025

STUDY MATERIALS FOR JAVA AUTOMATION QA ENGINEER

An **Automation QA Engineer** is a specialist whose responsibilities focused to improve the software development process by detecting errors in a product, so that requirements and goals for a software will be fulfilled and preventing defects from occurring again.

The candidate should be strong in:

- Basic understanding elementary testing concepts: (bug, test cases, testing types and levels.)
- Elementary database knowledge
- Experience in programming language Java
- Analytical and logical thinking
- Good English (A2+)

Typical tasks of the QA specialists are checking if the product complies with the requirements, assessing risks, planning tests, analyzing the test results, and ensuring a good customer experience.

To be better equipped for the qualifying test and interview, we encourage you to examine the **studying materials**, recommended for **Automation Testing** internship:

- Reading **ISTQB foundation level** syllabus (CTFL Syllabus 2023 v4.0 document), exploring in Google the unknown concepts: [available here](#)

NOTE: A very good knowledge of chapters 1 to 4 is a **must**.

- Reading and understanding the **SCRUM guide**:
- <https://scrumguides.org/>
- [Scrum Guide | Scrum Guides](#)
- **Software Development lifecycle**
- https://www.tutorialspoint.com/sdlc/sdlc_overview.htm
- <https://www.guru99.com/software-development-life-cycle-tutorial.html>
- **Database basics**
- [SQL Tutorial \(w3schools.com\)](#)
- <https://www.tutorialspoint.com/sql/index.htm>
- **Java Basics**: Understanding of data types, data structures and algorithms
- <https://www.w3resource.com/java-exercises/string/index.php>
- <https://www.hackerrank.com/domains/data-structures>
- <https://www.w3resource.com/java-exercises/sorting/index.php>
- **OOP (Object Oriented Programming)** principles
- [Java OOPs Concepts - Javatpoint](#)
- https://www.w3schools.com/java/java_oop.asp

- Basic **programming skills** in popular/trending languages
- <https://testautomationu.applitools.com/java-programming-course/>
- **Behavior Driven Development**
- <https://www.javatpoint.com/cucumber-behaviordriven-development>

- <https://cucumber.io/docs/bdd/>
- **Computer Science**
- <https://www.educative.io/blog/beginners-guide-to-computers-and-programming>