

# ENDAVA INTERNSHIP PROGRAMME | SPRING 2023

## 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
- 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, 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 2018 v3.1.1 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/>  
<https://scrumguides.org/scrum-guide.html>
- **Software Development lifecycle** [https://www.tutorialspoint.com/sdlc/sdlc\\_overview.htm](https://www.tutorialspoint.com/sdlc/sdlc_overview.htm)  
<https://www.guru99.com/software-development-life-cycle-tutorial.html>
- **Database basics** <https://www.w3schools.com/sql/default.asp>  
<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 principles** <https://www.javatpoint.com/java-oops-concepts>  
[https://www.w3schools.com/java/java\\_oop.asp](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>