

## ENDAVA INTERNSHIP PROGRAMME | AUTUMN 2022

### STUDY MATERIALS FOR JAVA AUTOMATION QA ENGINEER

An **Automation QA Engineer** is a specialist whose responsibilities are 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. 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 **Java Automation Testing** internship:

- Reading **ISTQB foundation level** syllabus, exploring in Google the unknown concepts:  
[https://istqb-main-web-prod.s3.amazonaws.com/media/documents/ISTQB-CTFL\\_Syllabus\\_2018\\_v3.1.1.pdf](https://istqb-main-web-prod.s3.amazonaws.com/media/documents/ISTQB-CTFL_Syllabus_2018_v3.1.1.pdf)  
*Note: A very good understanding of chapters 1 to 4 is a **must***
- Reading and understanding the **SCRUM** guide:  
<https://scrumguides.org/>  
<https://scrumguides.org/scrum-guide.html>
- Basic knowledge taken from the **Agile Tester Extension Syllabus**:  
[https://istqb-main-web-prod.s3.amazonaws.com/media/documents/ISTQB-CTFL-AT\\_Syllabus\\_v1.0.pdf](https://istqb-main-web-prod.s3.amazonaws.com/media/documents/ISTQB-CTFL-AT_Syllabus_v1.0.pdf)
- **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>
- **Automation** – understanding of data types, data structures and algorithms:  
<https://www.w3resource.com/java-exercises/string/index.php>  
<https://www.hackerrank.com/domains/data-structures?filters%5Bsubdomains%5D%5B%5D=arrays&filters%5Bdifficulty%5D%5B%5D=easy>  
<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/>
- Exposure to **Behavior Driven Development**:  
<https://www.javatpoint.com/cucumber-behavior-driven-development>  
<https://cucumber.io/docs/bdd/>
- Basic **Computer Science** Knowledge:  
<https://www.educative.io/blog/beginners-guide-to-computers-and-programming>