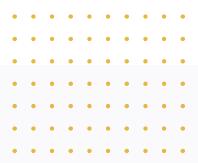
QA Manual



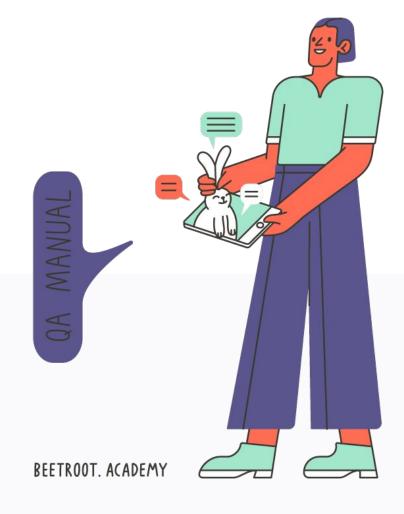


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Course overview



Duration: 2 months

Intensity: 3 times a week = 8 hours of practice with the teacher every week*

Total of 25 lessons = 50 hours of practice

*This is practice only. Overall, you would need to allocate 15 hours a week to read the theory and complete home assignments.

QA Manual

Requirements for students

- Personal computer
- Basic computer literacy
- Knowledge of testing theory
- will be a benefit

PC Requirements

- 1.8 GHz or faster processor (min 4 core);
- 4 Gb RAM (8Gb recommended);
- at least 20 Gb disk space;
- webcam (720p) and microphone.

Teachers. Practicing specialists who care about students

- 1. All our teachers are Middle+ or Senior practicing specialists of their fields.
- 2. Each teacher passes three stages of the interview: assessment of technical skills, presentation of teaching skills, and testing for compliance with our values.
- There are 70+ teachers in our community who help each other grow through in-house workshops, webinars, and knowledge sharing.



This is the course for you if...

You're starting or switching a career

You'd like to join the IT field and of all the professions, testing seems to be your jam.

You're already an expert in a different field

Testing skills would support your promotion and career advancements or help you get along with QA Engineers at your workplace.



The studying process



1. Theory - on your own

Videos, useful resources, homework, and tests are all in our LMS



2. Practice in group with the teacher



3. Do the home assignment



Lesson flow



Analyzing questions about theory which the students studied independently via LMS and Beetroot Academy materials

Feedback on the homework from your teacher and an overview of typical questions





Demonstration of practical cases and examples by the teacher

A practical assignment for the group. The teacher gives personal feedback to everyone



Your weekly schedule*



An average of 15 studying hours a week**

^{*}Please note that your schedule distribution may be different depending on what your group agrees on.

^{**}This is the average amount of time per week for successful course completion. Some weeks would require more time than others.

Tools used in the course

During the course, you will explore and use a variety of tools:

- TestRail and TestLink
- Jira
- Postman
- SoapUl
- SQL (MC SQL)
- Fiddler
- Apache Jmeter
- Selenium WebDriver (or ChromeDriver)













^{*}Beetroot Academy recommends using free versions of all tools. Their trial versions are enough to complete the course successfully

Modules



Module 1.	Fundamental theory of testing and its application Test control systems and bug tracking systems	on 11 lessons, 22 hours
Module 2.	Testing web applications, ————————————————————————————————————	6 lessons, 12 hours
Module 3.	Databases. Intro to SQL	3 lessons, 6 hours
Module 4.	Basics of traffic analysis, load and automated tes Preparing for an interview.	sting 5 lessons, 10 hours

Course program in detail

Module 1

Fundamental theory of testing and its application. Test control systems and bug tracking systems (11 topics, 22 hours)

- 1. What is testing and why is it important? Core ISTOB Standards
- 2. SDLC & STLC. Software development methodologies
- 3. Working with specifications. Analyzing and writing specifications
- 4. Test documentation. Test Plan, Checklist, Test Suite, Test Case. Documents that are created upon testing
- 5. Levels and types of testing

- 6. Test control systems (TestRail, TestLink)
- 7. Working with bug tracking systems such as JIRA, Mantis, Redmine
- 8. Testing techniques (White-Box & Black-Box)
- 9. The practice of applying the Black-Box test design technique. Part 1
- 10. The practice of applying the Black-Box test design technique. Part 2
- 11. Practice of using test design techniques. White Box

Course program in detail

Module 2

Testing web applications, web services, and mobile testing (6 lessons, 12 hours)

- 1. Testing user interfaces (GUI). Web applications testing
- 2. Web basics (HTML, CSS). Xpath and CSS selectors. Character Encoding
- 3. Testing API with JSON vs XML. REST vs SOAP
- 4. Testing API with Postman.
- 5. Testing API with SOAP UI
- 6. Basics of testing mobile apps

Module 3 Databases. Intro to SC (3 lessons, 6 hours)

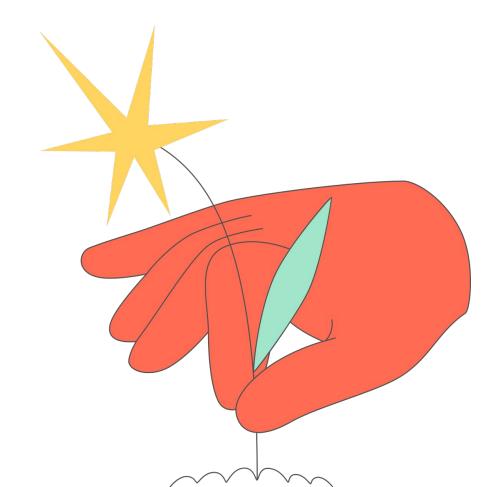
- 1. Intro to SOL. Relational databases, SELECT operator
- 2. Intro to SQL. Comparison predicates, aggregate functions
- 3. Intro to SQL. Join operations, nested requests and JOIN statements

Course program in detail

Module 4

Basics of traffic analysis, load and automated testing. Preparing for an interview (5 lessons, 10 hours)

- 1. Working with Wireshark and Fiddler traffic analyzers
- 2. Load testing basics with Apache Jmeter.
- 3. The basics of automated testing (Selenium WebDriver) interaction. Bluetooth, TCP, DNS, DHCP, SMTP, UDP, FTP, HTTP basics
- 4. Getting ready for an interview
- 5. Exam



Your future CV will include

Education

June 2022 – October 2022

QA Manual course at Beetroot Academy



- Understanding of all-purpose testing
- Knowledge of SDLC and STLC
- Experience with test documentation: test-cases, checklists
- Manual web-based and mobile app testing: practical skills of finding defects and creating bug reports

- Knowledge of test management systems (TestRail, TestLink)
- Understanding of test design techniques:
 - Black box: Boundary value analysis,
 Equivalence partitioning, Decision
 table, State transition diagram
 - White box: Decision and Statement coverage (on pseudocode)
- Basic knowledge of SQL queries and MySQL database

- Understanding of client-server architecture and communication principles. REST, SOAP testing via Postman and SoapUI
- Basic knowledge of proxy server tools (Fiddler, WireShark)
- Automation basics (Selenium, Jmeter)
- Knowledge of bug tracking tools and processes (JIRA)

Author

Pavlo Matchenko

5+ years of professional experience;

Worked for companies: Ubisoft, Unity Bars.



Career Counseling

After mastering the technical skills in the course, your next step in building a successful IT career would be to create your CV and get ready for future interviews. Career counseling will help you be presentable in the eyes of a potential employer.

Benefits of Beetroot Academy Career Counseling:

- Understand what makes a successful CV and how to make one for yourself;
- Learn best practices of preparing for interviews and passing them;
- Find out what to look for when choosing an employer;
- Master business correspondence with recruiters and HRs

Graduation

The students compile a portfolio during the course. It contains bug reports, autotests, test cases, a test plan, and a test strategy.

One of the last lessons will be dedicated to getting ready for the job search. The teacher will equip the students with frequently asked questions during interviews.

At the end of the course, the students take the final exam with open questions. The tasks should be treated as any homework and further reviewed and analyzed in the last lesson.

At the end of the course, you will receive an e-certificate of completion*.

*given you do the homeworks and the final project



Beetroot Academy's Alumni



Yuliia Holub

Beetroot Academy is an excellent example of a new era of education where every teacher cares about students' development. Students' results and interests are a top priority. There's a friendly atmosphere and no hierarchy.



Artem Melnyk

Great school with individual approach to each student. If you want to learn something new or progress in a chosen field, this is the place for you. Highly recommend.



Anton Tymoshenko

Super cool courses. Lots of interesting practical tasks. Exceptional team and great atmosphere. I'm grateful for the knowledge, experience, and networking.



Olha Ivanytska

Four months of training flew by. It was so informative, friendly, and fun that I'm bound to want some more! Very grateful for a solid base and desire to never stop learning.

About Beetroot Academy

Beetroot Academy is an impact-driven IT school that helps people to start and improve their career in tech by offering reskilling and upskilling courses.

Since 2014, Beetroot Academy has educated 5,300+ graduates in Ukraine and Sweden.

We team up with businesses to equip teams or individual professionals with needed tech skills to reskill - change career path to face digitalization; and upskill - add on new competencies within tech.

Our educational courses consist of practical and intensive learning modules in a broad spectrum of tech domains suitable for a team or individual professionals.



Trusted by recognized companies and institutions

























































Our advantages

Teaching Methodology

All course programs are developed by practicing specialists and meet the market requirements. We apply the flipped classroom method, where our students study theory at home, and then come to classes and practice with the teacher.

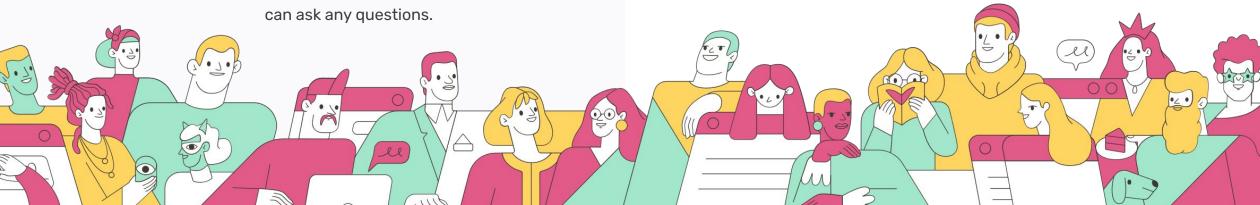
Agile, studentcentered Approach

Beetroot Academy is a Swedish-Ukrainian school. There is no strict hierarchy within our team, and we make sure to keep the atmosphere friendly.

We want you to feel relaxed in class students and teachers are equal, and you can ask any questions.

Social impact driver enterprise

Our goal is world-class high-quality IT education. Students are interviewed and tested - that's how we select the most motivated candidates. The course fees cover our expenses, and the income is invested in the Academy's further development.





beetrootacademy.com

