

Quality Assurance

5 months

Online

Part-time

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What is Quality Assurance?

The Quality Assurance Program by TripleTen is a 5-month course designed for people with little to no knowledge of software testing.

What you'll learn

The program aims to equip you with all the skills needed to land a job in the tech industry. You'll learn the fundamentals of the QA profession, and by the end, be able to perform tests in a structured and efficient way. You'll learn how to test a variety of products, such as web applications, web APIs, and mobile applications. The program will equip you with a variety of technical skills, with introductions to databases, file systems, the console, web protocols, Python, and more.

Soft skills are a must-have

In addition to the technical skills you need to get started in the tech industry, the program also aims to teach the soft skills required for a successful career. You'll learn broadly applicable skills such as time management, goal setting, teamwork, and more. The program covers both soft skills that are specific to the tech industry, such as how to work with documentation, and soft skills that will make you a successful employee.

Program Structure

Your journey will be structured as a series of sprints, grouped into thematic modules. Each sprint will have a particular set of learning outcomes, reinforced through quizzes and tasks. At the end of the sprint, you will take the skills you've learned and combine them with your existing skills to work on a project that will be assessed by industry experts.

We provide some rough time estimates to help you plan and manage your time, and we recommend spending around 15–20 hours per week studying. However, we understand that everyone has different commitments and people learn at different speeds. We also understand you may need a break at times, so we have some suggested breaks scheduled in.

Module 1. QA as a Profession

Sprint 1

Testing Fundamentals

Learn the QA engineer's role, the Software Development Life Cycle (SDLC), key testing types, and exploratory testing. Finish by applying your knowledge in your first project.

Understand the SDLC and how a QA engineer fits into it

Name the various types of testing

Perform exploratory testing

Project: Urban Routes

Sprint 2

Test Design and Documentation

Learn how to analyze product requirements, follow the Software Testing Life Cycle (STLC), design effective test cases, and apply your skills in your second project.

Analyze and decompose product requirements

Design tests

Read and write test documents

Project: Urban Routes—Test Design

Module 2. Testing Across Platforms

Sprint 3

Testing Web Applications

This is your first deep dive into testing. This sprint explores the structure of web applications by examining the front end and back end. You'll learn all about client-server architecture, technologies such as HTTP, and how to use related tools such as Chrome DevTools.

Understand the structure of web applications and client-server architecture

Use DevTools to examine a page and HTTP requests

Project: Urban Routes – Web App

Sprint 4

APIs

Application Programming Interfaces, or APIs, are a crucial but often unseen part of Internet infrastructure. In this sprint, you'll learn how to use Postman to test an API. You'll also learn what an API actually is, as well as everything you'll need in order to understand APIs, such as REST architecture, JSON, and the HTTP request and response structure.

Be familiar with Postman core functionality

Understand API architecture and technologies

Validate and test APIs using Postman

Project: Urban Grocers API

Sprint 5

Understanding Databases

This sprint focuses on databases. You'll start by getting an overview of relational databases and then move on to learning how to test them. You'll learn about different types of SQL queries, from simple search queries to more complex queries, such as joins and table merges. You'll also learn how to use the console to connect to remote servers and how to navigate around system directories.

Understand database testing principles

Write SQL search queries

Modify databases with different types of joins

Project: Database Testing

Sprint 6

Testing Mobile Applications

This sprint is all about mobile applications. Here you'll learn how to use the Android Studio emulator, practice setting logs, and become familiar with the intricacies of testing on a real device.

Understand mobile testing

Use Android Studio to find bugs

Set and remove logs

Project: Testing an Android App

Module 3. Scripting and Automation

Sprint 7

Python

This sprint introduces you to one of the most important programming languages in the world: Python. You'll learn the fundamentals of the language, discover the various tools used with Python (such as PyCharm), and learn how to use GitHub to backup your code.

Understand programming logic (statements and loops)

Be familiar with different data structures

Write test scripts

Project: Python Foundations

Sprint 8

Browser Automation

Finding bugs in an application manually can take a lot of time. Fortunately, QA engineers can use automation to lighten the workload and make the process more efficient. This sprint teaches you how to use a commonly-used testing tool called Selenium.

Understand automation and the testing pyramid

Become familiar with automation frameworks

Use Selenium Webdriver to test a web application

Project: Automated Testing with Python and Selenium

Module 4.

Applied Testing: Final Project

Sprint 9

Applied Testing:
Final Project

The final project gives you the chance to put all of your learning into practice as you test a mobile app, a web app, and an API. You'll design and perform tests, then submit bug reports with your findings.

N/A for the final project

Career Preparation

During the program

Stay connected to your career goals while focusing on technical learning.

Career-focused lessons throughout the program

Job market insights and career awareness

Professional and soft skills development

Career Sprint

Spend 6 weeks preparing for your job search after graduation.

Build your resume, LinkedIn profile, and job search strategy

Join live group sessions and AMA sessions with career coaches and industry experts

Get started with our AI-powered job search platform for interview practice, career resources, and application management

Active Job Search

Throughout your job search period (up to 10 months), you'll receive ongoing guidance from the Career Team, strengthen your professional network, and have opportunities to keep building your portfolio.

Get guidance from your assigned career coach

Use our AI-powered job search platform to manage applications, networking, and interviews

Attend live career workshops and other learning opportunities

Access TripleTen's job board with roles from our employer network

Get opportunities to work on projects with partner employers

Receive unlimited AI-powered HR and technical interview practice

Practice live mock interviews with your coach when you land an interview

Learn the job by doing the job

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