

SOFTWARE APPLICATION DEVELOPER (TESTER)

Software Testing Bootcamp

Curriculum & Industry Certifications

Duration: 24 Weeks (240 Hours) (6 months)

Prerequisite:

- No prior IT skills or tech experience required
- Working knowledge of English language is required

Program Highlights

- **Beginner-first design:** Starts with the very basics of computers and gradually builds up.
- **Format:** Live, instructor-led online classes offered over Zoom
- **Capstone Project:** Students apply everything learned to a real-world software testing project.
- **Career Support:** AI powered career support resources.

Program Curriculum

Module	Hours	Focus & Objectives
Basics of Computer	10	Introduction to computers, operating systems, hardware, software, and basic IT concepts.
PLT, Database, Oracle, SQL	30	Learn about databases, Oracle, SQL queries, and how to interact with databases to extract and manipulate data.
Object-Oriented Programming	10	Introduction to Object-Oriented Programming (OOP) concepts, such as classes, objects, inheritance, and polymorphism.
Introduction to HTML5	15	Basic understanding of HTML5, how websites are structured, and their role in web testing.
Introduction to CSS3	15	Learn about CSS3 to style websites and how CSS impacts the visual appearance of web applications.
Introduction to JavaScript	30	Intro to JavaScript (variables, functions, loops, and event handling for web applications).
Software Testing Manual	20	Understanding manual software testing processes, test case creation, defect reporting, and execution of test plans.
Quality Management	35	Overview of quality management principles, testing standards, software lifecycle, and quality assurance processes.
Introduction to Python	30	Python programming basics: syntax, variables, functions, and data structures, with an emphasis on automation in testing.
Software Testing Automation with Selenium using Python	30	Learn how to automate test scripts using Selenium and Python, including creating test scripts and running automated tests.
Capstone Project	20	Hands-on project that allows students to apply all the concepts learned, from manual testing to automation, in a real-world scenario.
Certification Prep	20	Practice exams, AI search guide for resume writing and mock interviews

Module Descriptions

Basics of Computer

This module covers the essential concepts of computers, including understanding how hardware and software work together, operating systems, and basic terminology. It serves as a foundation for all IT-related learning.

PLT, Database, Oracle, SQL

Students will learn the fundamentals of databases, how to create and manage them, and how to write SQL queries to interact with data. The module focuses on Oracle databases and SQL, teaching students how to retrieve and manipulate data in a testing context.

Object-Oriented Programming

Introduces the core concepts of Object-Oriented Programming (OOP), including classes, objects, inheritance, and polymorphism. Understanding OOP principles is essential for writing efficient code and developing automated tests.

Introduction to HTML5

Teaches students how to structure content on web pages using HTML5. It focuses on building the foundational elements of web applications, making it crucial for web testing.

Introduction to CSS3

Covers CSS3 to style the appearance of web pages. Students learn how to design and adjust the visual aspects of websites, which is vital for front-end testing to ensure proper display across different devices and browsers.

Introduction to JavaScript

Introduces JavaScript, covering the basics such as variables, functions, loops, and handling events. This module is essential for web automation and testing dynamic user interactions on web applications.

Software Testing Manual

Focuses on the manual testing process, including how to create test cases, execute test plans, and report defects. Students learn the methods used to manually check whether software meets the required standards.

Quality Management

Students explore the principles of quality management in software development, focusing on testing standards, the software development life cycle (SDLC), and quality assurance practices to ensure software reliability and quality.

Introduction to Python

This module teaches Python programming basics, covering syntax, data types, functions, and more. Python is a powerful tool for automating tests and is widely used in the software testing industry.

Software Testing Automation with Selenium using Python

Students learn how to automate web application testing using Selenium and Python. They will create automated test scripts to streamline the testing process, improve testing efficiency, and reducing errors.

Software Testing Automation with Selenium using Python (Continued)

This advanced module dives deeper into Selenium and Python automation, focusing on handling dynamic web elements, data-driven testing, and integrating automated tests into a testing framework for larger applications.

Capstone Project

The Capstone Project allows students to apply everything they've learned in a real-world scenario. Students will conduct both manual and automated tests on a software application, documenting their findings and solutions.

Certification Prep + Portfolio Polishing

Practice for the certification exams. Check the AI generated guide by VCA for step by step resume writing, interview prep and job search process.