simplilearn

Automation Test Engineer

Master's Program

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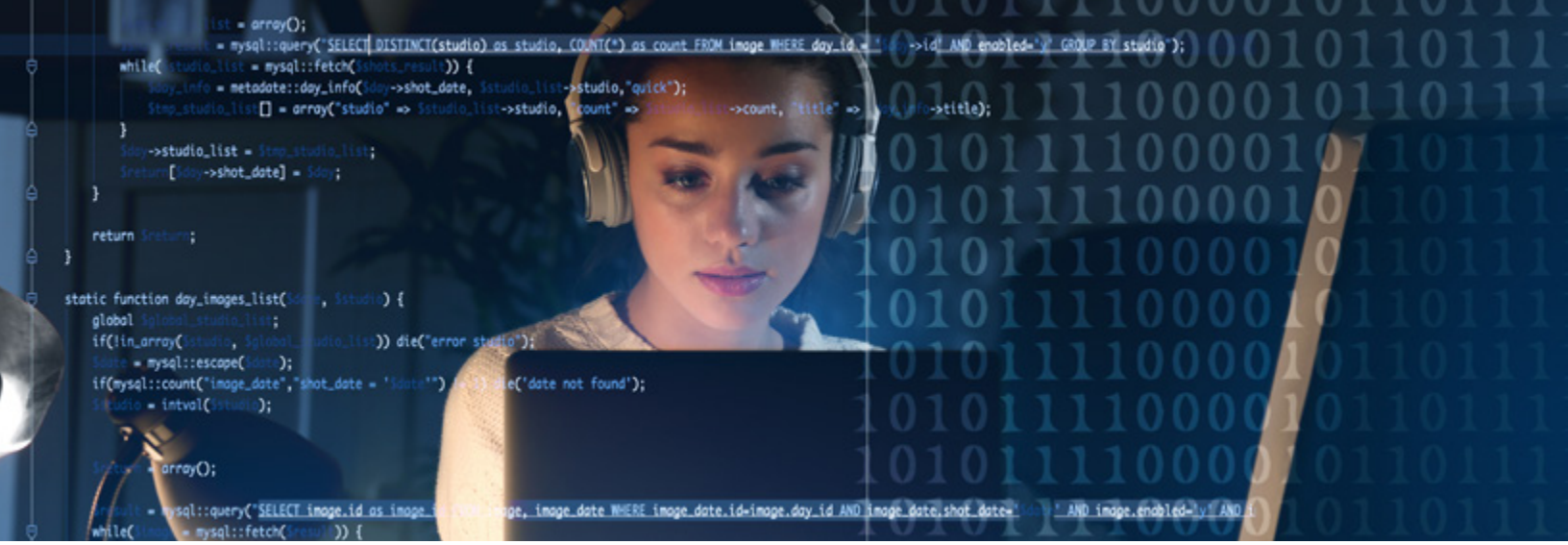
About the Course

This course will advance your career as an automation test engineer. You'll learn top skills demanded in the industry, including GIT, Selenium, Jenkins, and JMeter to apply engineering to software development processes and build quality products.

The automation test engineer training program is designed to provide you with complete knowledge of software testing technologies such as Selenium Web Driver, TestNG, Maven, AutoIT, Selenium Grid, Appium, and Docker to help you build a robust testing framework.



About Software Development Industry

The global software engineering market is expected to grow to approximately USD $37.4 billion by 2022, at a CAGR of 11.72 percent. Corporate initiatives focused on digital transformation will help drive tremendous demand for skilled software developers, which is reflected in current and future hiring trends. According to NASSCOM and USA Today, one million software development jobs will be added to the workforce by 2020 in India and 1.4 million jobs in the USA.

Many companies prefer to hire multi-skilled technology professionals like Automation Test Engineers. The average annual salary for an Automation Test Engineer is USD $94,270 (ZipRecruiter).
Some additional interesting aspects of the software development industry:

- Junior developers are getting massive starting salaries compared to the last 20 years
- Upskilling is one of the most important priorities for developers today (Stackoverflow 2019)
- The phenomenal rise of consumer applications in both web and mobile is driven by the availability of open-source projects/libraries
- Smaller, quicker releases – which results in better productivity – is becoming a key for software product success. Automation Engineers are well-positioned to empower this trend.

Key Features

Comprehensive Applied Learning program

190 hours of self-paced learning

1 industry-aligned capstone project

360 hours of in-depth training

15+ in-demand tools and skills

The job-assist program included (India only)

178 hours of instructor-led training

14 lesson-end & 4 phase-end hands-on projects

Top Skills and Tools covered

- Agile(skills)
- Git (tools)
- Java (skills)
- SQL(tools)
- Selenium(tools)
- Jenkins (tools)
- JUnit (tools)
- JMeter 5.0 (tools)
- Appium(tools)
- Docker (tools)
- TDD with TestNG(skills)
- AWS (skills)
- Maven (tools)
- Ant(tools)
- JDBC (skills)
- API Testing with Postman(skills)

Program Outcomes

By the end of the program, you will be able to accomplish the following:

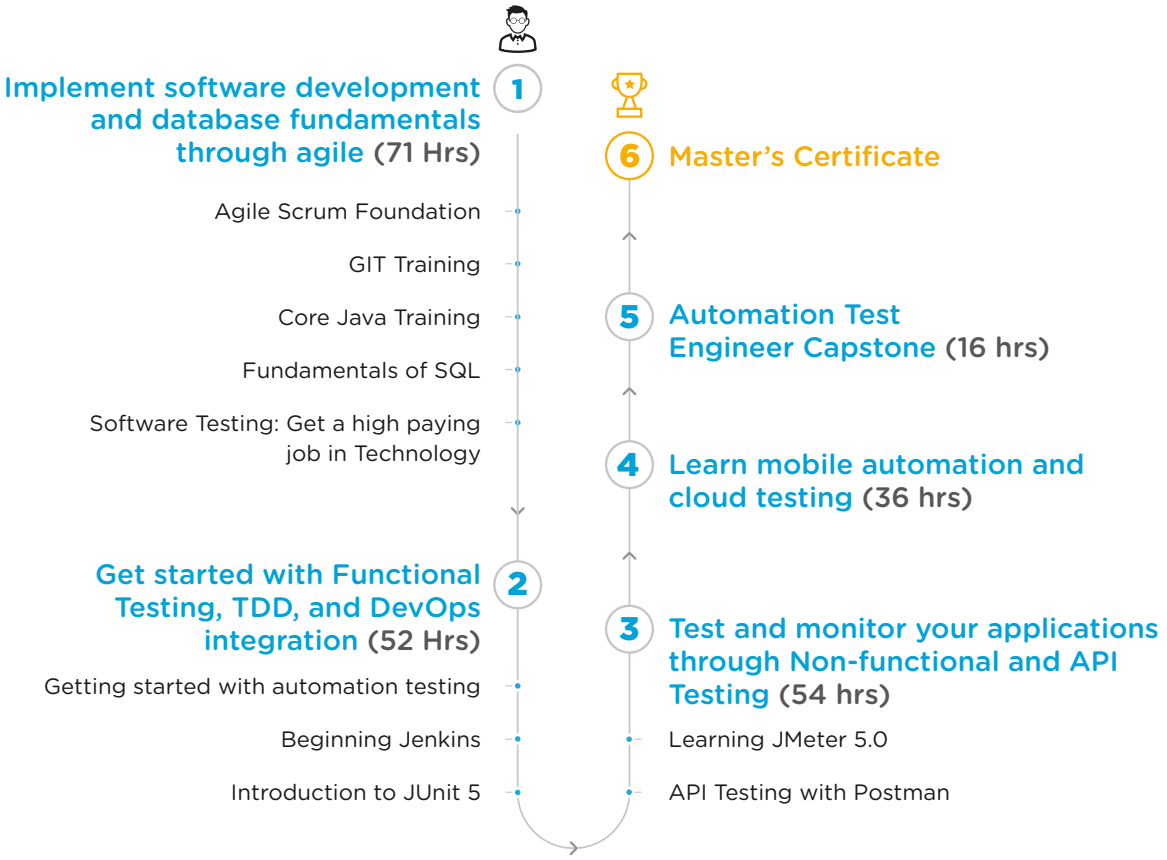
- Master software programming concepts and implement them in real-life
- Become an agile practitioner with the ability to quickly complete industry projects
- Build an end-to-end application from scratch and test it
- Test and deploy features seamlessly to production with minimal effort
- Build a running, industry-aligned project from scratch
- Complete 40+ topic-end, lesson-end, and phase-end projects

Who Should Enroll in this Program?

This Automation Test Engineer Course is designed for:

Freshers, software developers, IT professionals, engineers, test engineers, technical consultants, and analysts

Learning Path



STEP 1 2 3 4 5

Implement software development and database fundamentals through agile

Course Learning Objectives:

After completing this phase you will:

- Understand the basics of agile methodologies and GIT
- Become familiar with Java fundamentals—variables, loops, data types, operators
- Make of SQL queries to maintain and analyze data in the database
- Comprehend software testing fundamentals and use cases

Skills and Tools Covered:

- Agile and Scrum
- Git
- Java
- SQL
- Selenium

STEP 1 2 3 4 5

Get started with Functional Testing, TDD, and DevOps integration

Course Learning Objectives:

After completing this phase you will:

- Understand what automation testing is and evaluate test cases using TestNG
- Work with reports using XML and Selenium Grid
- Execute CI/CD pipelines with Jenkins
- Get familiar with JUnit 5

Skills and Tools Covered:

- Selenium Grid
- TestNG
- JUnit 5
- Jenkins
- JSON

STEP 1 2 3 4 5

Test and monitor your applications through Non-functional and API Testing

Course Learning Objectives:

After completing this phase you will:

- Execute and analyze test cases and understand non-functional testing with JMeter
- Perform hands-on API testing with Postman

Skills and Tools Covered:

- JMeter
- Postman

STEP 1 2 3 4 5

Learn mobile automation and cloud testing

Course Learning Objectives:

After completing this phase you will :

- Learn about Appium and how to automate mobile tests using Appium
- Deploy test cases in the cloud using DevOps

Skills and Tools Covered:

- Appium
- Docker
- AWS

STEP 1 2 3 4 5

Automation Test Engineer Capstone

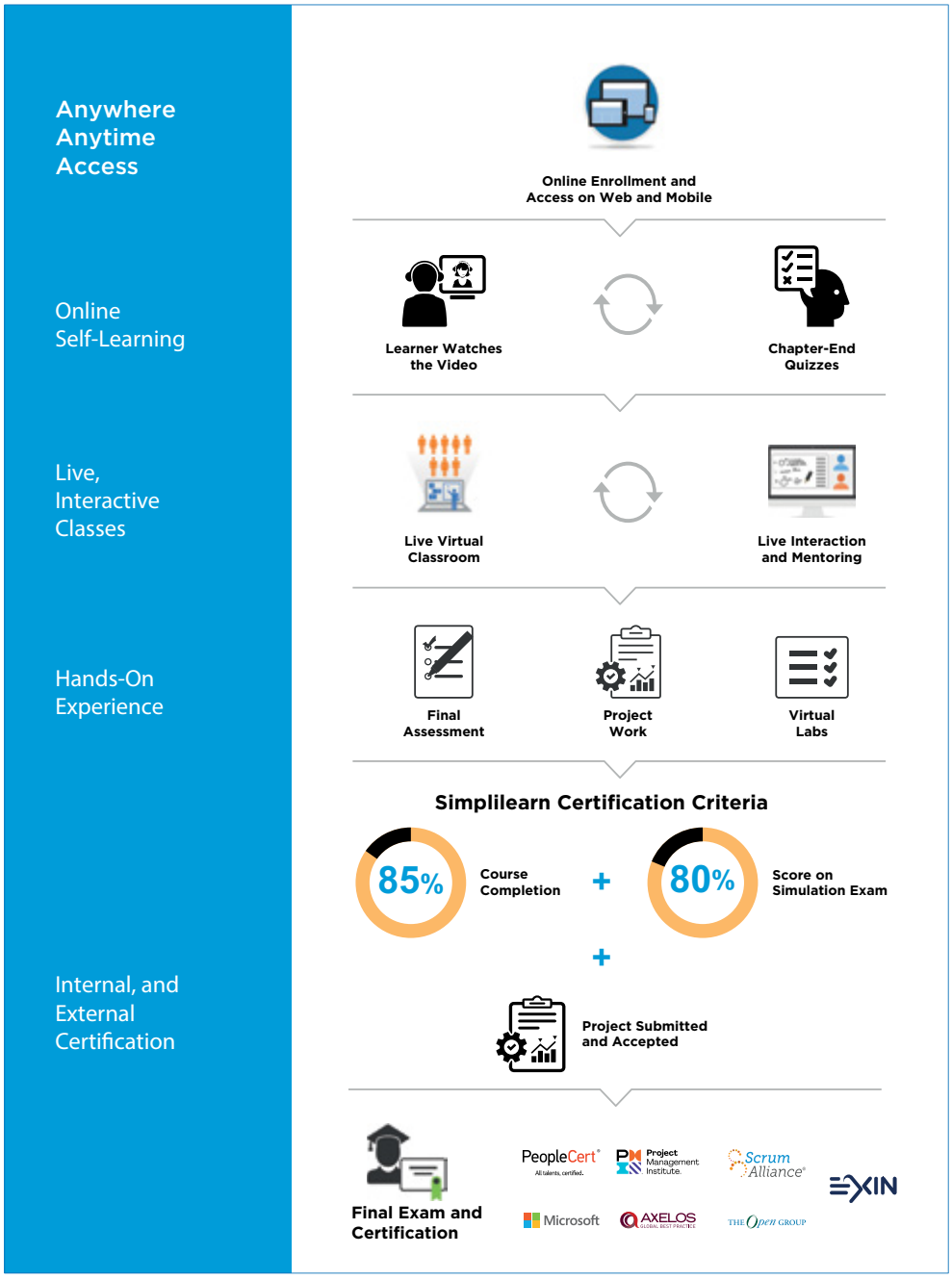
Course Learning Objectives:

The Automation Test Engineer Capstone will allow you to implement the skills you've learned in this program across domains. With dedicated mentoring sessions, you'll know how to solve a real industry-aligned problem. You will receive hands-on experience in developing an entire application from scratch and deploying into a pseudo-production environment. The Capstone project is the final step in the learning path and will help you showcase your expertise to employers.

Certificate

Upon completion of this Master's Program, you will also receive an industry-recognized Master's Certificate from Simplilearn.

Classroom-Level Immersion: Delivered Digitally



Customer Reviews

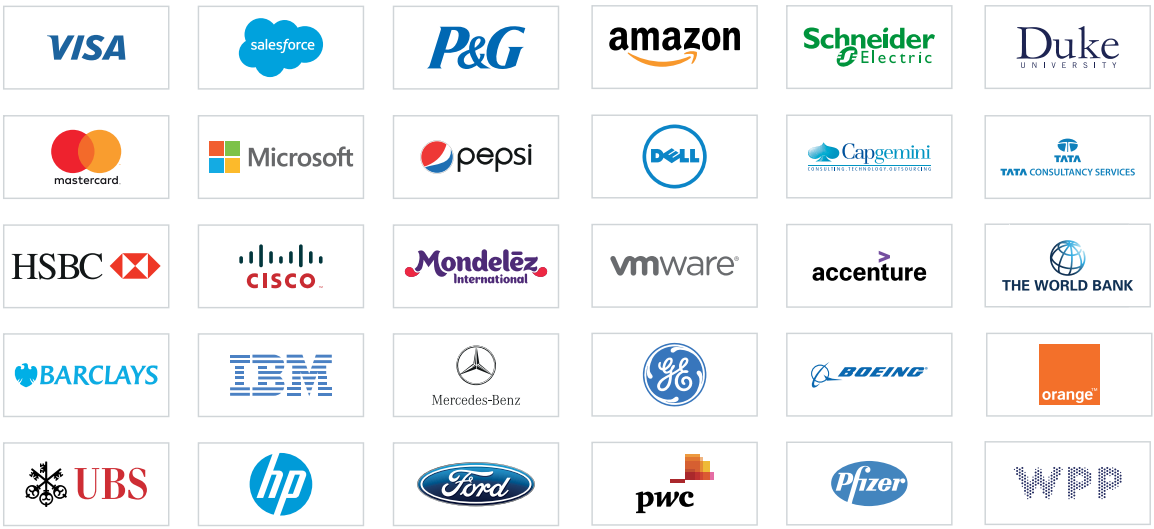
Raj Kurup

Application Development Senior Director
at **CIGNA**

Simplilearn team is the best. I love the format and logistics of Simplilearn so much that I would chose them for future courses at any cost rather than take anything else. Awesome guys.

Corporate Training

Top clients we work with:



Features of Corporate Training:

- Tailored learning solutions
- Flexible pricing options
- Enterprise-grade learning management system (LMS)
- Enterprise dashboards for individuals and teams
- 24X7 learner assistance and support

About Simplilearn

Simplilearn is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time as traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals.

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