



simplilearn

# Automation Test Engineer

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## Master's Program

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## About the Course

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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

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Comprehensive Applied Learning program



15+ in-demand tools and skills



1 industry-aligned capstone project



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



The job-assist program included (India only)

# Top Skills and Tools covered

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



# Program Outcomes

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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?

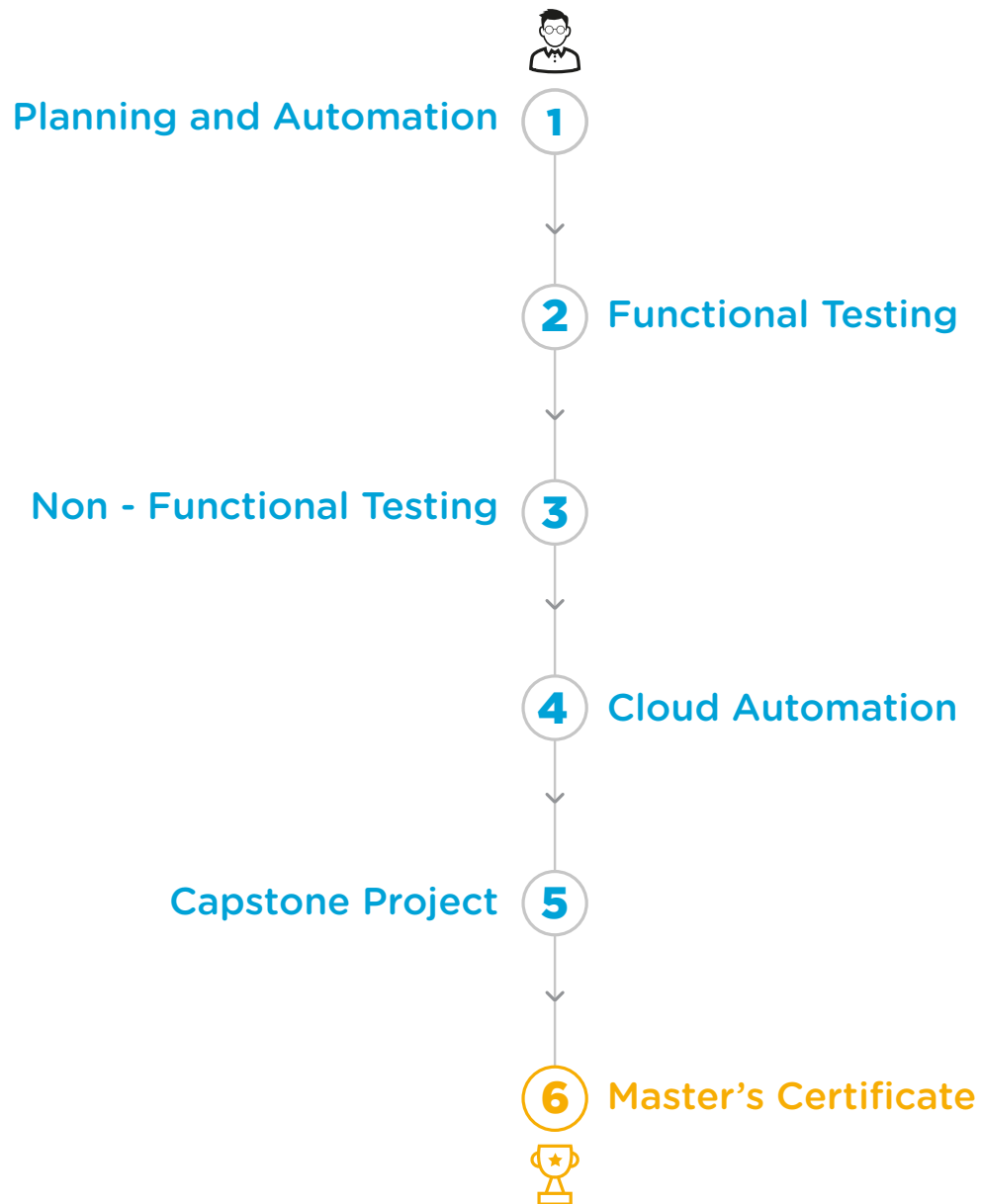
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This Automation Test Engineer Course is designed for:

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

# Learning Path

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# Planning and Automation

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## Course Learning Objectives:

This phase will help you learn Agile and Scrum methodologies to deliver projects on time, and learn to create the test cases for the front-end.

## Skills and Tools Covered:

- ✓ Agile
- ✓ SQL
- ✓ Git
- ✓ HTML
- ✓ CSS
- ✓ JavaScript
- ✓ Angular
- ✓ Cypress



# Functional Testing

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## Course Learning Objectives:

This phase will help you check whether each application feature works as per the software requirements using various technologies and tools like TDD, TestNg, JUnit 5, and Gherkin.

## Skills and Tools Covered:

✓ Core Java

✓ Cucumber

✓ JUnit 5

✓ JDBC

✓ TDD

✓ Gherkin

✓ Selenium

✓ TestNg

STEP

1

2

3

4

5

# Non - Functional Testing

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## Course Learning Objectives:

This phase will enable you to create a test plan, run and analyze test cases, perform test execution, and monitor application performance using JMeter and Postman.

## Skills and Tools Covered:



JMeter



Postman



REST Assured

# Cloud Automation

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## Course Learning Objectives:

This phase will help you deploy test cases in the cloud and DevOps environments using Jenkins, AWS, and Docker.

## Skills and Tools Covered:

- ✓ Jenkins
- ✓ Docker
- ✓ AWS
- ✓ Maven

**STEP**

1

2

3

4

5

## Capstone Project

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### Course Learning Objectives:

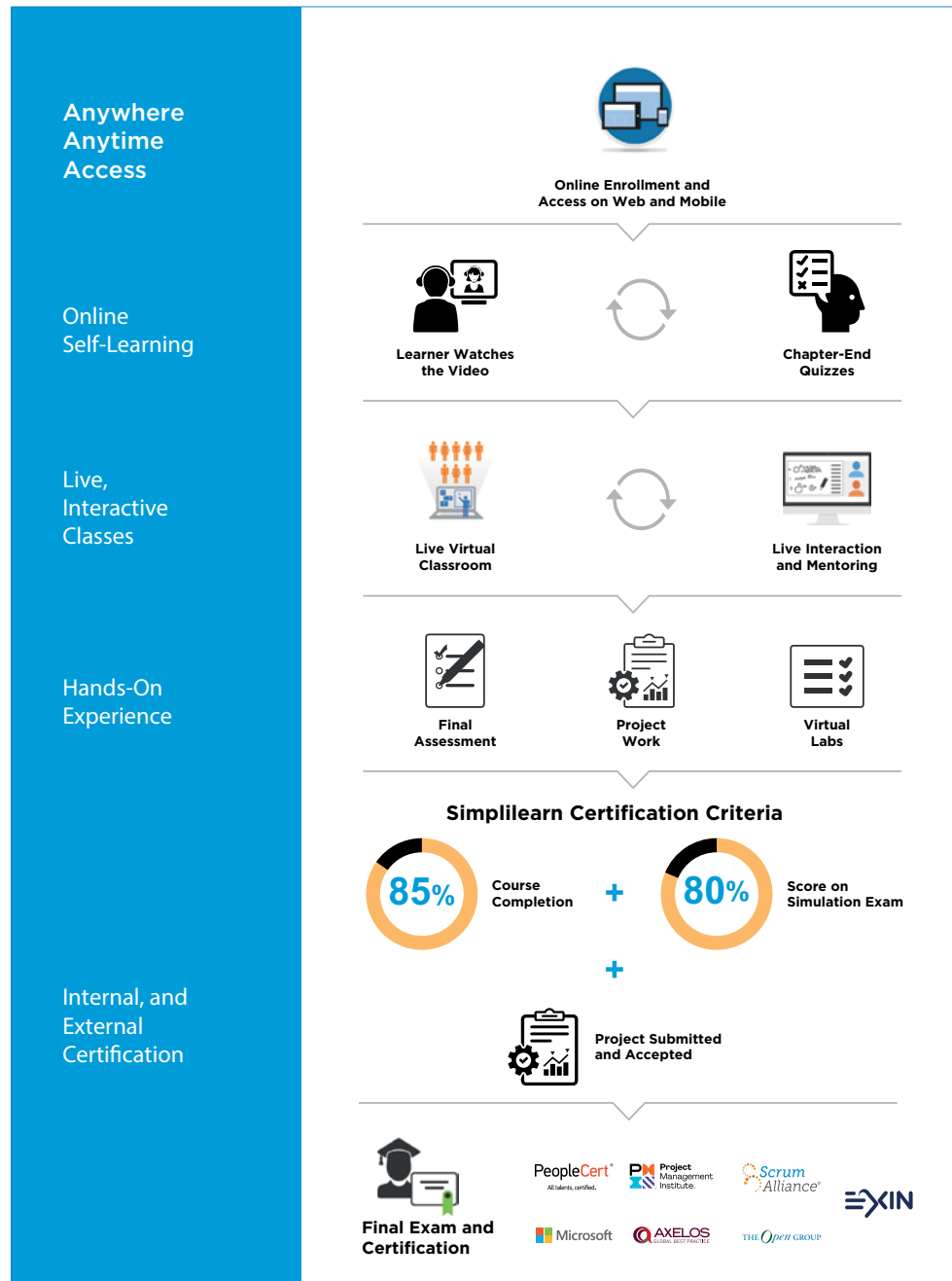
The Automation Test Engineer Capstone will allow you to implement the skills you've learned in this program across domains. With dedicated mentoring sessions, you'll know how to solve a real industry-aligned problem. You will receive hands-on experience in developing an entire application from scratch 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

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## Raj Kurup

Application Development Senior Director  
at **CIGNA**

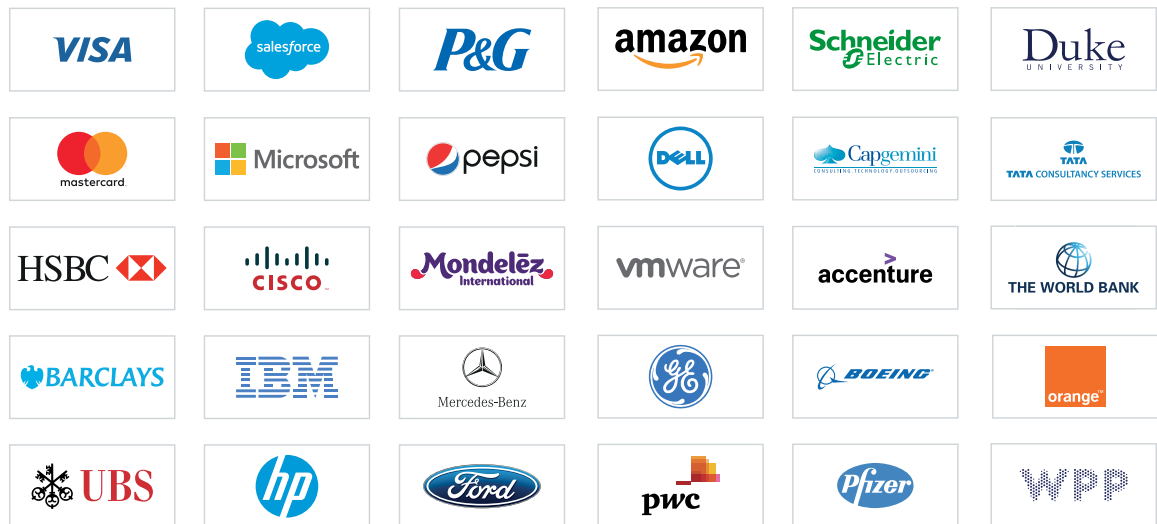


Simplilearn team is the best. I love the format and logistics of Simplilearn so much that I would chose them for future courses at any cost rather than take anything else. Awesome guys.



# 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

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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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