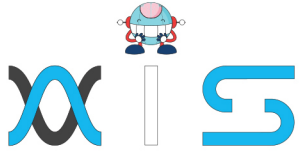


# Automation Test Engineer

Master's Program





## About the Program

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.

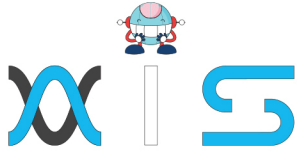
## About Software Development Industry

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.

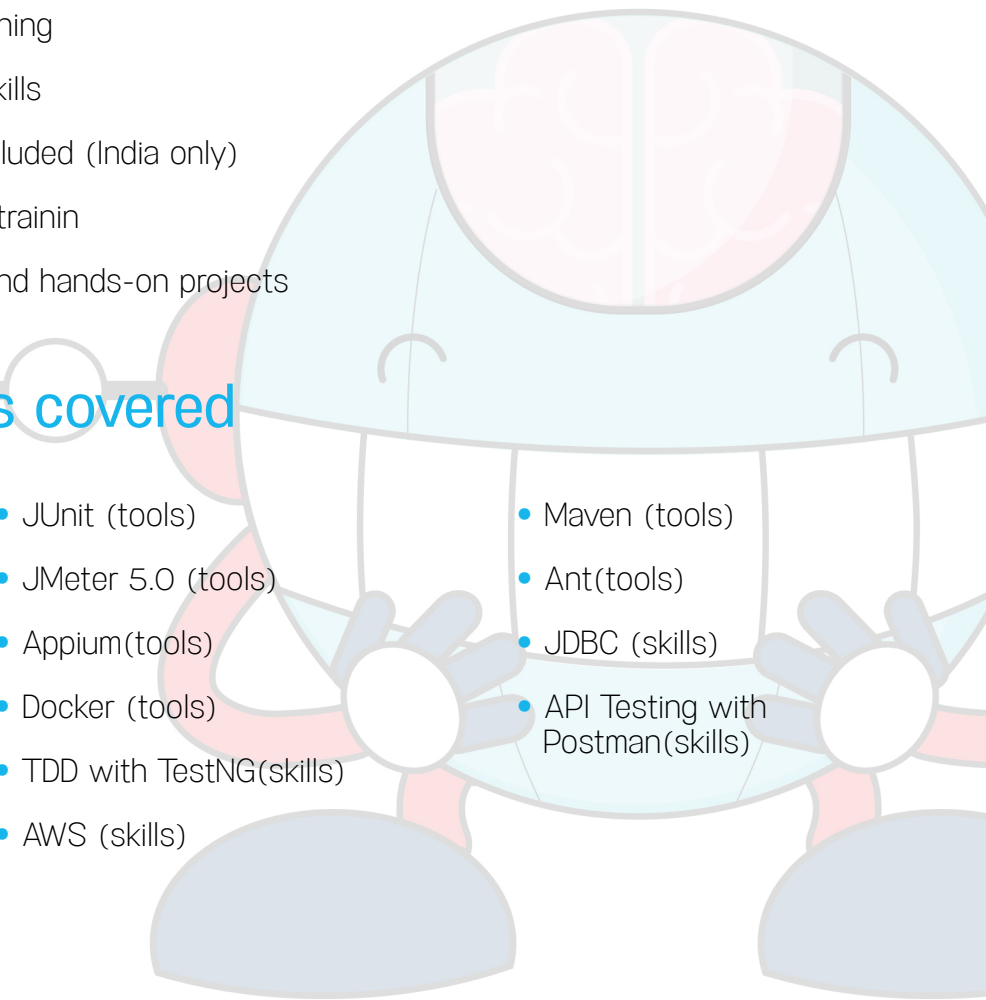


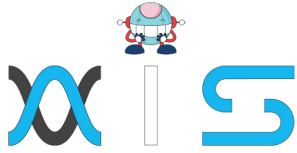
## Key Features

- Comprehensive Applied Learning program
- 190 hours of self-paced learning
- Walkthroughs of 35+ Digital Marketing tools
- 1 industry-aligned capstone project
- 360 hours of in-depth training
- 15+ in-demand tools and skills
- The job-assist program included (India only)
- 78 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

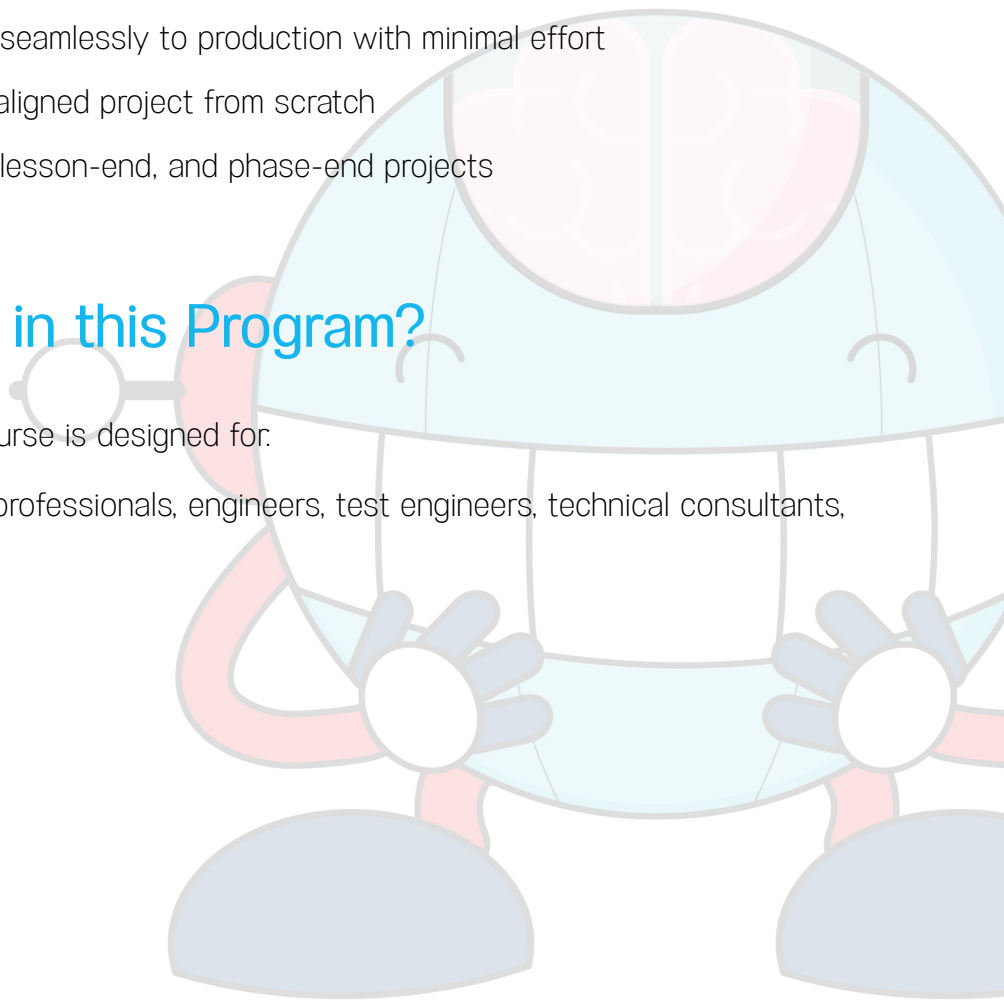
By the end of the program, you will be able to accomplish the following:

- 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



1

**Implement software development and database fundamentals through agile (71 Hrs)**



Agile Scrum Foundation

Git Training

Core Java Training

Fundamentals of SQL

Software Testing: Get a high paying job in Technology

2

**Get started with Functional Testing, TDD, and DevOps integration (52 Hrs)**



Getting started with automation testing

Beginning Jenkins

Introduction to JUnit 5

3

**Test and monitor your applications through Non-functional and API Testing (54 hrs)**

4

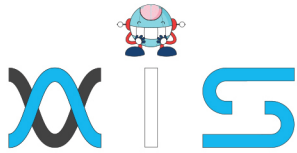
**Learn mobile automation and cloud testing (36 hrs)**

5

**Automation Test Engineer Capstone (16 hrs)**

6

**Master's Certificate**



## STEP



# Implement software development and database fundamentals through agile

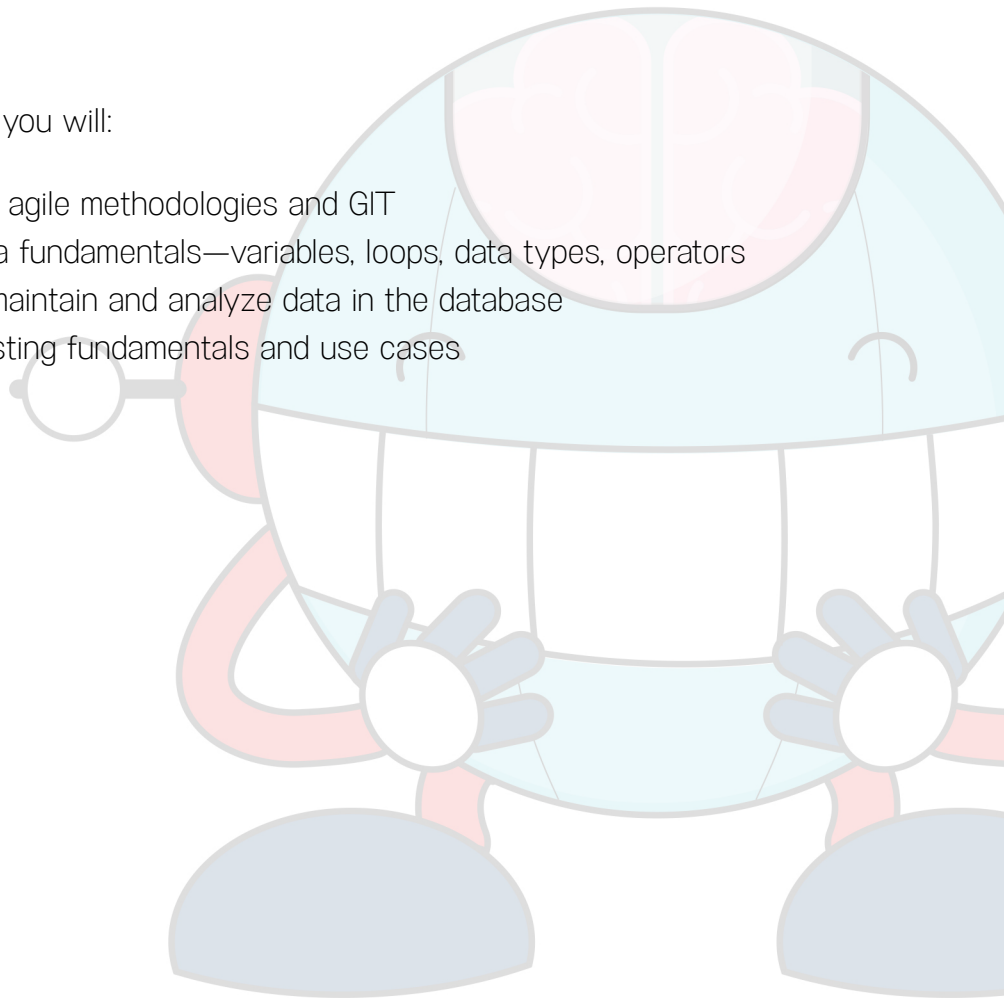
## Course Learning Objectives

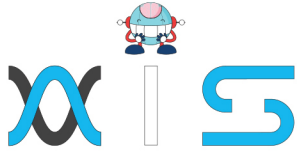
By the end of this learning phase, you will:

- 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 & Tools Covered

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





## STEP



# Get started with Functional Testing, TDD, and DevOps integration

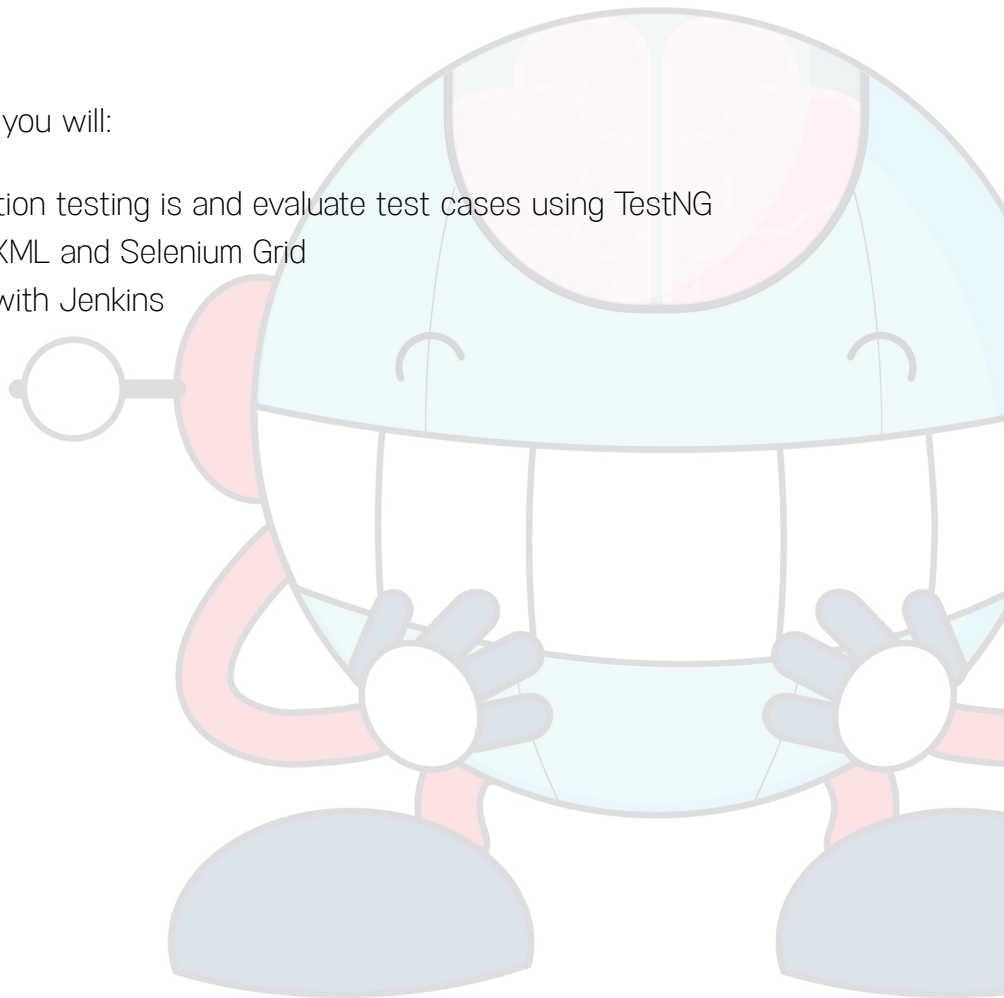
## Course Learning Objectives

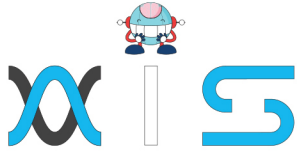
By the end of this learning phase, you will:

- 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 & Tools Covered

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





## STEP



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

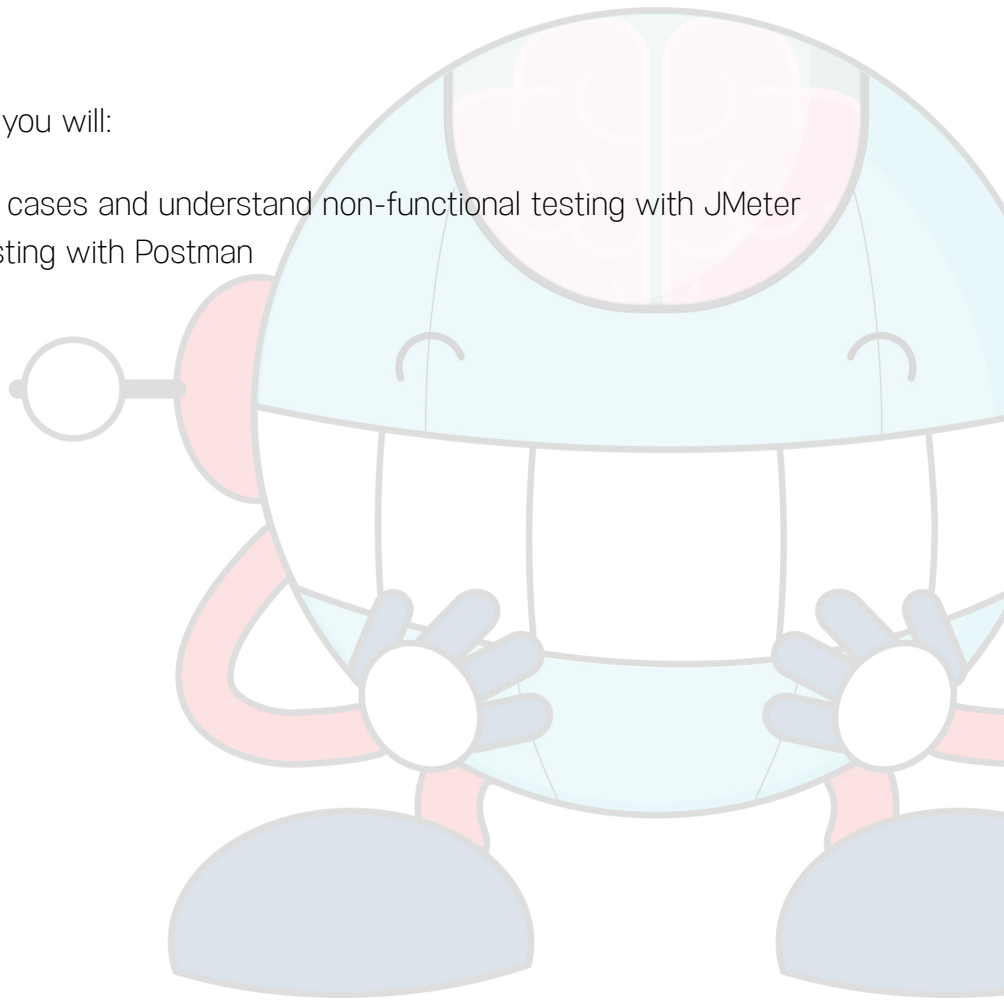
## Course Learning Objectives

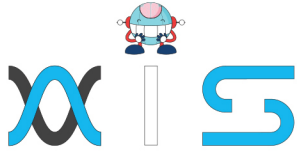
By the end of this learning phase, you will:

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

## Skills & Tools Covered

- JMeter
- Postman





## STEP



# Learn mobile automation and cloud testing

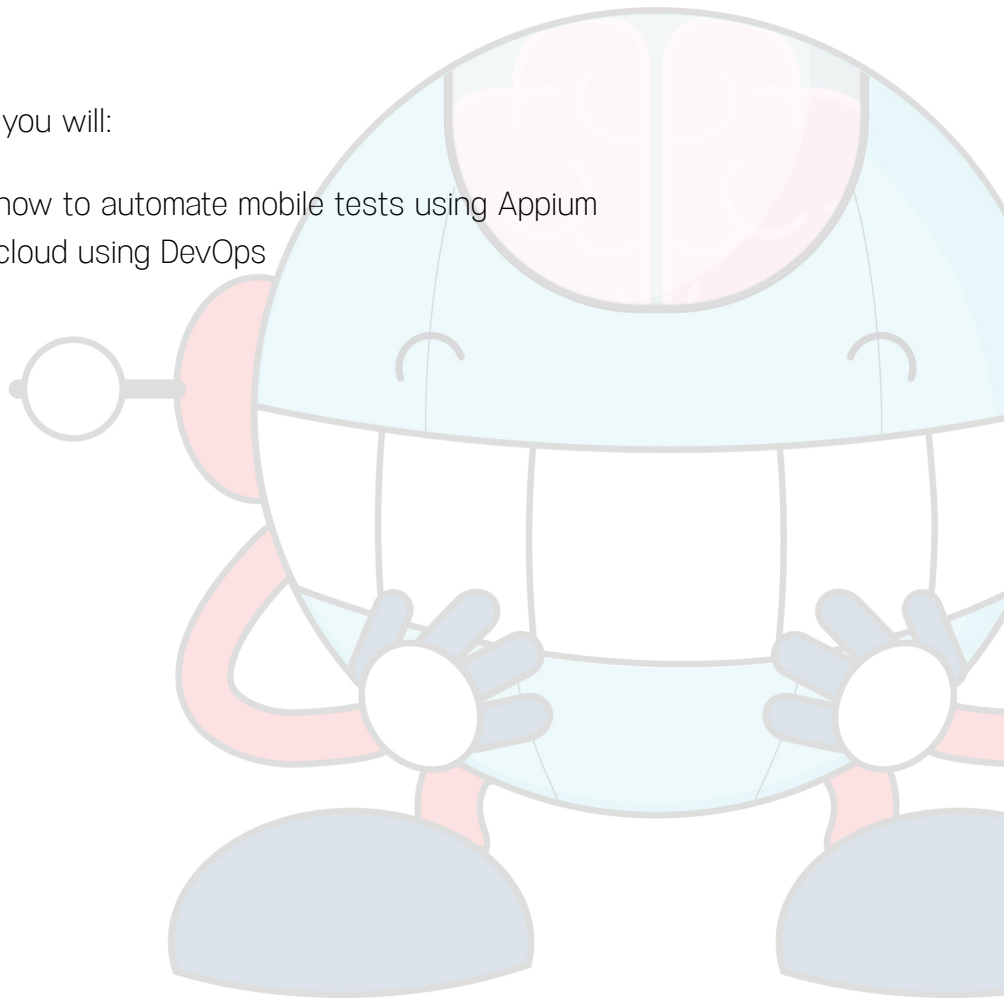
## Course Learning Objectives

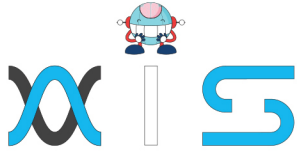
By the end of this learning phase, you will:

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

## Skills & Tools Covered

- Appium
- Docker
- AWS





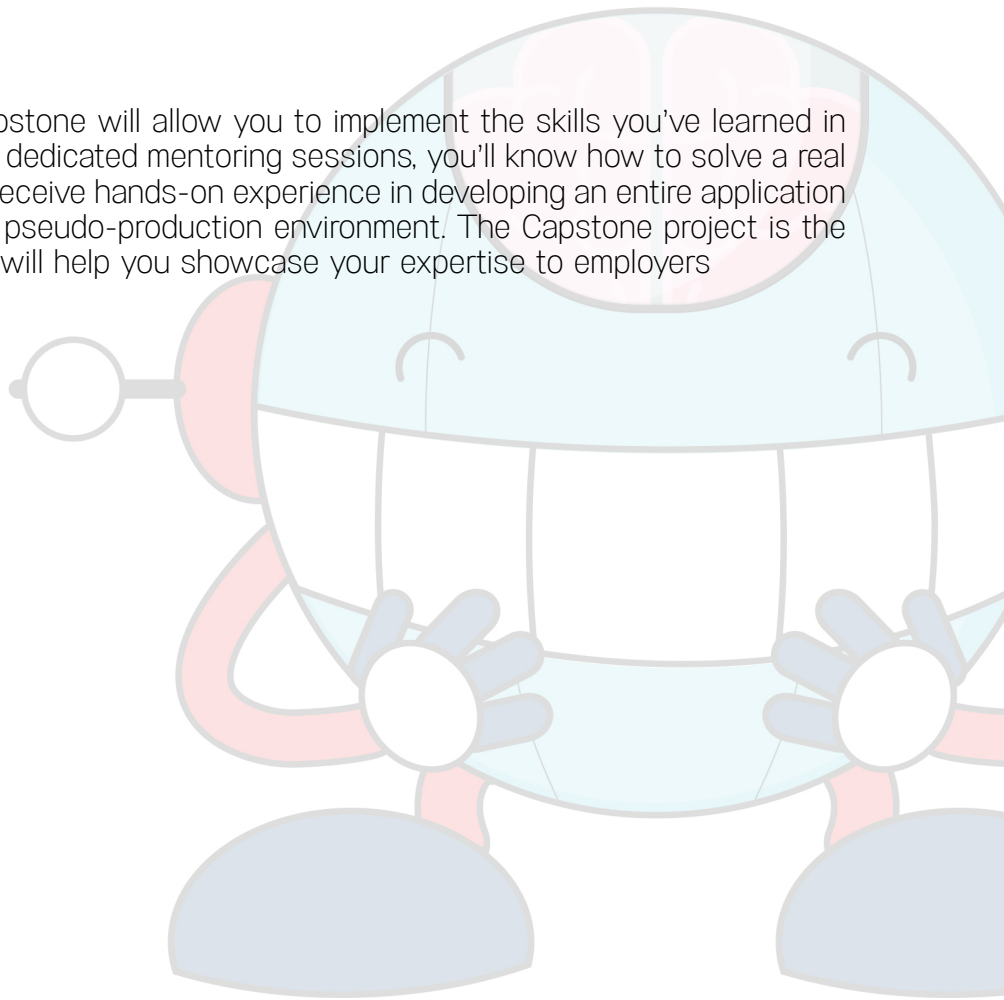
## STEP

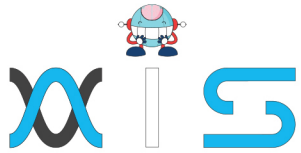


## Learn mobile automation and cloud testing

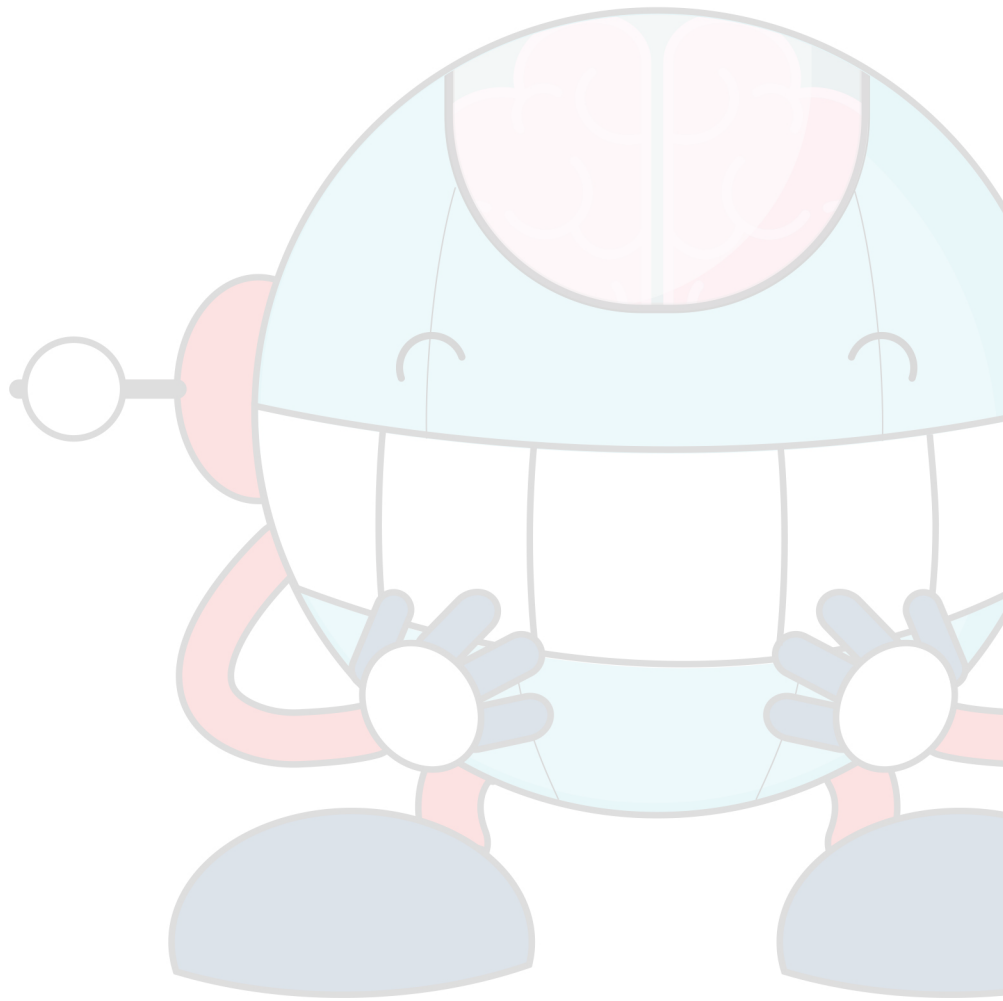
### Course Learning Objectives

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



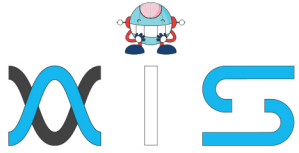


## Certificates



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





## Classroom-Level Immersion: Delivered Digitally

Anywhere  
Anytime  
Access

Online  
Self-Learning

Live,  
Interactive  
Classes



Online Enrollment and  
Access on Web and Mobile



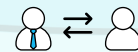
Chapter-end  
quizzes



Chapter-end  
quizzes



Live virtual  
classroom



Live interaction  
and mentoring



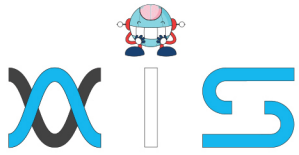
Final Assessment



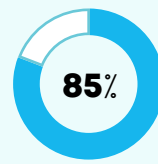
Project Work



Virtual Tabs

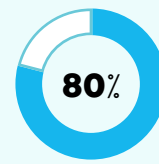


## Internal, and External Certification



Course  
Completion

+



Score on  
Simulation Exam

+



Final Exam & Certification

PeopleCert<sup>®</sup>  
All talents, certified.

PM Project  
Management  
Institute.

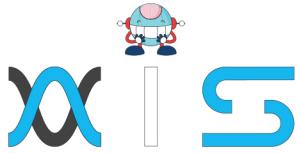
Scrum  
Alliance<sup>®</sup>

EXIN

Microsoft

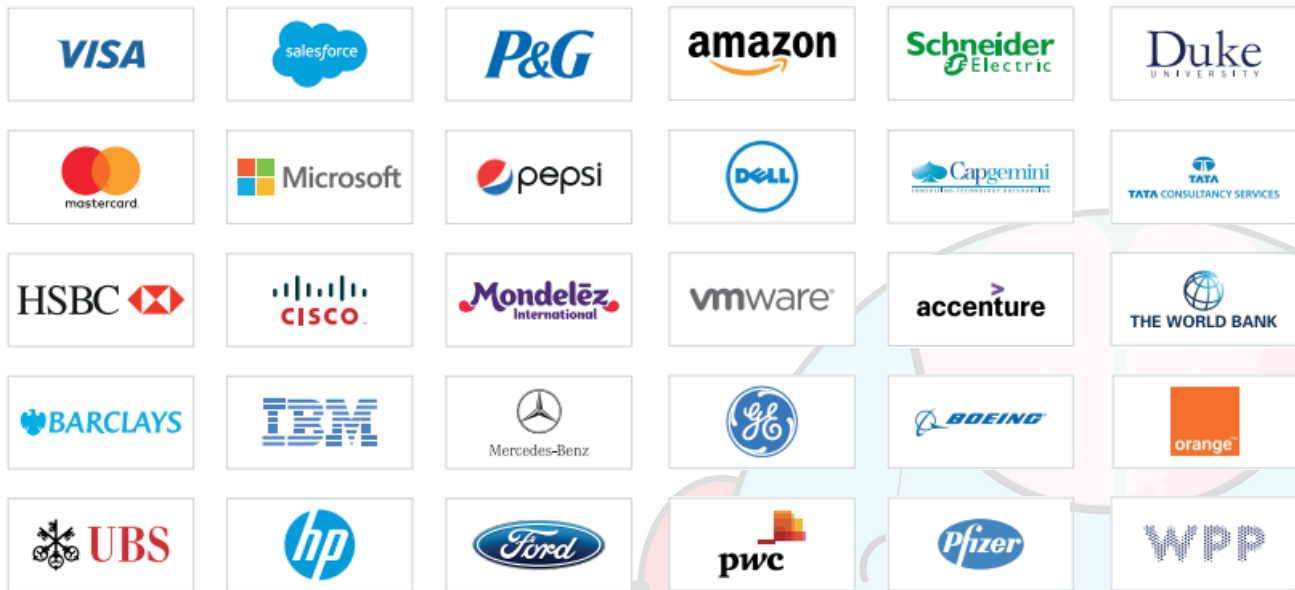
AXELOS  
GLOBAL BEST PRACTICE

THE Open GROUP



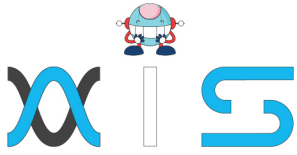
## Corporate Training

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
- 24 x 7 learner assistance and support



## AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

### Learning Partners



#### SAS Management, Inc.

Premiere training and consulting services company, SAS Management, Inc. has been in the industry for a decade. SAS Management, inc. focuses on creating value in every learning and consulting experience by providing the best possible output – whether in a virtual classroom setup, e-learning, or face-to-face. SAS Management, Inc. is the leading training and certification provider for ITIL, Project Management Professional, ISO certifications, PRINCE2, SDI Service Desk Analyst and Manager, Agile, and a host of many programs and courses.



#### Simplilearn

Tagged as the “World's #1 Online Bootcamp”, Simplilearn provides online education and in-house training for professional certification courses. Founded in 2010, Simplilearn offers more than 100 programs, helping professionals reach their learning potentials needed to work in the digital economy.

### Technology Partner

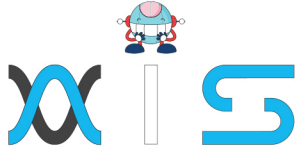


#### Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

### Partners & Affiliates





*The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.*

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