

Fellowship Program in QA Automation (SDET)

Detailed Curriculum



Crio.Do



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About the Program

Build your career as an Automation Test Engineer/SDET working in leading product companies. Gain practical work experience in building professional projects inspired by real-world scenarios.

You will gain hands-on exposure to key automation testing skills like API Testing, Database, Micro services Testing, DevOps, and technologies like Selenium with Java, TestNG, Maven, Cucumber & more.

We also cover advance topics more suited to cracking SDET roles, like CI/CD, Virtualization, Docker, Deployment, Scripting, Advanced Git, Test Bed Creation

Impress recruiters with your verified QA project portfolio which validates all your learnings and real work experience.





Key Features



Mini-project and micro-skilling exercises to learn CS Fundamentals and practical QA Automation testing skills.



4+ Professional work like projects, with expert mentorship, to master Automation Testing skills in a practical work-like environment.



Well-structured interactive workshops and live sessions from industry seasoned professionals.



Advance QA concepts in API, DB, Microservices & Integration testing for cracking SDET roles.



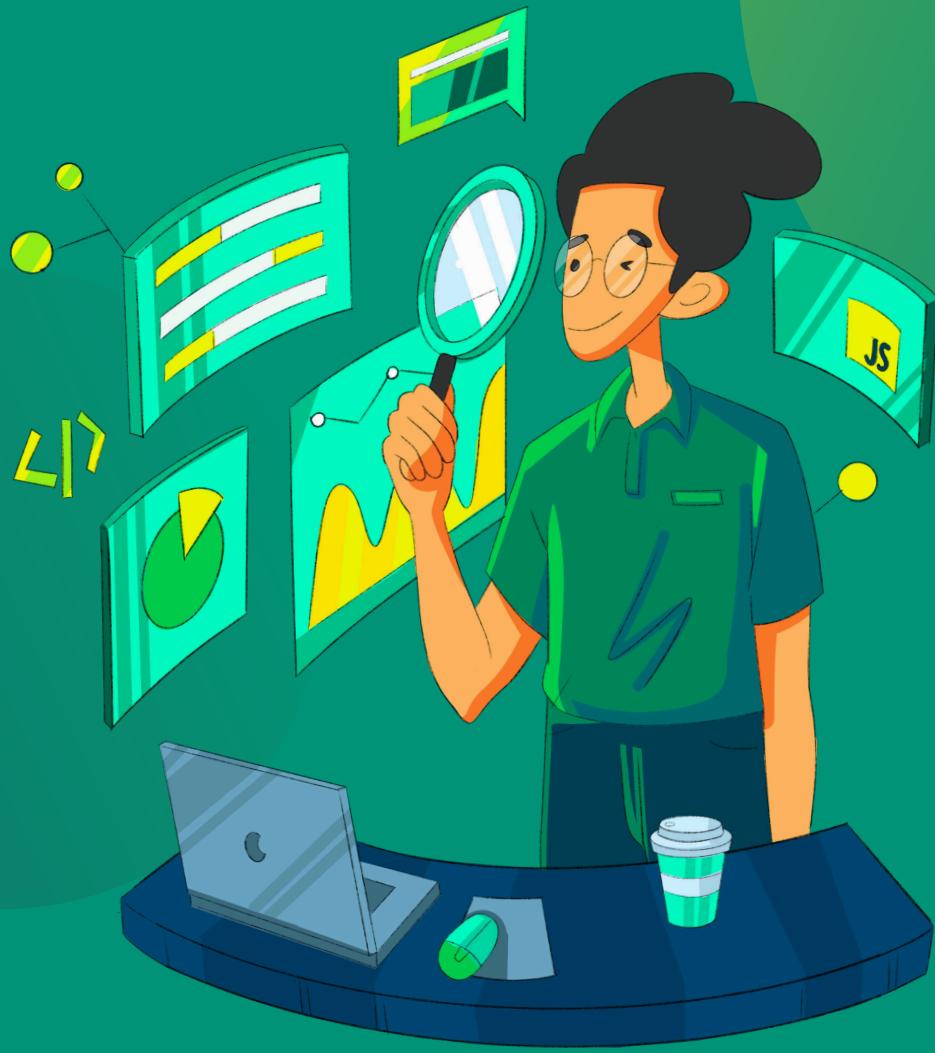
100% Guaranteed job referrals with job-search support, referrals, and career guidance from experienced career coaches



How is the Program Different from other Online Courses?

Existing ways of learning - video-based courses or expensive certifications, don't provide the real skill development needed when working in a top tech company. Crio's work experience-based learning allows you to work on professional work-like projects and multiple hands-on activities in a real QA test engineer/SDET environment to learn new skills.

	Video courses + Online Programs	Certifications (Ex - ISTQB)	Crio's
Microservices, System Architecture & E2E Testing	✗	✗	✓
Foundations of Cloud/DevOps/ SDLC Best Practices	✗	✗	✓
Focus on improving DSA skills (critical for SDET)	✗	✗	✓
1-on-1 Career Coaching	✗	✗	✓
True Project based Learning	✗	✗	✓
Verified Git Project Portfolio	✗	✗	✓
Industry Recognition	✗	✓	✓
Guaranteed job referrals	✗	✗	✓



Who is this Program For?

Crio's Fellowship Program in QA Automation(SDET) is open to working professionals with 0-7 years of industry experience who wish to gain hands-on work experience and advance their careers in automation testing.



Fellowship Program in QA Automation (SDET)

Get Guaranteed job referrals in top tech companies by mastering in-demand Full-Stack or Backend developer skills through our carefully curated hands-on, work-like, project-based **Fellowship program**.

With the Fellowship Program, crack dream jobs (6-15 LPA) in **top product-based companies**.

LENDINGKA₹T

fampay

navi

ninjacart

Jumbotail

capillary

Tracxn

ATHER

With Additional Advanced curriculum crack super-dream jobs (15-40 LPA) at **unicorns and tech giants**.

POSTMAN

CRED

OLA

Groww

ORACLE®

IBM

amazon

Microsoft



Career Services

Get ready to apply all the skills you learn through our program to ace interviews and land your dream career in software development.



1:1 Career coaching
Sessions with top industry professionals



Live mock interviews
with Industry Experts



Series of mock assessments and detailed interview prep sprints to ace top tech jobs



Expert guidance to get your profile
(GitHub, LinkedIn, Resume) ready



Guidance to start applying to a diverse set of job opportunities in-line with your career aspirations.



Land Top Software Testing Jobs- Guaranteed!

Our career team will help you find the right career opportunities through a combination of direct referrals, and identifying opportunities that you can apply to. The job opportunities will span across leading tech MNCs and exciting product-based tech startups.

Our engineers have achieved their career goals of working in some of the best companies

Crio developers have cracked jobs in



Keerthana Koorapati

is in

ATHER



Karthik Chennupati

is in

amazon



Deval Sethi

is in

apna



Surya Saini

is in

MobiKwik



Hasan Shaikh

is in

briq



Namrata Kumari

is in

IBM



Ajay Singh Bhadauriya

is in

WISSEN



Adriza Mishra

is in

Honeywell



Atul Kashyap

is in

briq

We guarantee that you will get placed in a top software testing role in a leading tech company. We will continue to help you till you land an opportunity that offers at least your **minimum guaranteed CTC**.

What is the Minimum Guaranteed CTC?

Minimum Guaranteed CTC is the minimum salary you will earn once you get hired after completing the Crio Masters Program. This is determined based on your profile and your performance in the free trial period.

Learning Path



FREE TRIAL

Introductory Week



Developer Essentials

2 Weeks



Programming Essentials

8 Weeks



Testing Essentials

2 Weeks



Web Based Automation

10 Weeks



Data Structures and Algorithms

8 Weeks



Specialisation in Advanced Testing Concepts

8 weeks

FREE TRIAL



QA Essentials

- ✓ Learn about Web-based Automation for websites like Redbus, Amazon, etc. and learn how to fetch the page, extract element data and use it to automate tasks in the process.
- ✓ Understand how platforms like Leetcode, Hackerrank test your code submissions. This will help you learn test data identification, manual testing and automated testing.

Manual Testing

Automated Testing

Web-based Automation



Programming Essentials

8 Weeks

Strengthen your foundational programming skills through a series of hands-on activities and curated problem statements.

Java

OOPS

Collections

RegEx

HTML Basics

Exception Handling

Debugging



Developer Essentials

2 Weeks

Get introduced to key skills needed to be an effective SDET through mini-projects and hands-on developer activities.

Agile

SQL

Linux

Gradle

CI/CD

Jenkins

Docker



Testing Essentials

2 Weeks

Through carefully designed workshops and activities, master testing fundamentals like Test Strategy, Test Data Generation, Test Case Design, Defect Life Cycle, Software Testing Levels, Software Testing Types, Estimation, Metrics, and Testability.



Web Based Automation

10 Weeks

Through a carefully designed series of hands-on workshops and mini-projects, learn fundamental testing concepts that are essential to become a strong SDET.

Selenium

Web Driver

XPath

Apache POI

Page Object Model

Framework

Grid

TestNG

Cucumber

3 Professional Work-like Projects

- ✓ **QBasket:** Create Automated Test Cases for a Big Basket like web-based application with guidance from experienced mentors
- ✓ **XTravel:** Create Automated Test Cases for a Make My Trip like web-based application independently based on your learnings so far
- ✓ **QFramework:** Architect a Selenium Framework using concepts like Page Object Model, Test NG, Extent Reports, Jenkins etc. and automate test cases using this framework



Data Structures and Algorithms

8 Weeks

Master essential Data Structures from an interview perspective and understand their applications in the real world. Learn the Crio methodology to crack any programming problem.

Time space complexity

Arrays

Linked List

Stack/Queue

Trees

Hash

Sort

Search



Specialisation

8 Weeks

Step up to the next level by mastering advanced testing concepts like API Testing, Mobile Automation, Performance Testing and Security by working on additional professional work-like projects.

API Testing

Performance Testing

JMeter

RESTful API



AI Tools for Automation Engineers

4 Weeks

Foundations of LLM and Generative AI

- Understand the core principles and technologies behind large language models and generative AI.
- Explore popular models including Multi-modal models.
- Focus on Prompt Engineering to achieve optimal results.

Mastering OpenAI APIs

- Hands-on sessions to seamlessly integrate OpenAI APIs into your applications.
- Models, Pricing, Realtime vs Batch APIs and Rate Limiting
- Cloud AI Offerings (e.g. Azure OpenAI).

Building LLM RAG Pipelines and Fine-Tuned Models

- Learn to create and optimize Retrieval-Augmented Generation (RAG) pipelines and custom fine-tuned models.
- Use Function Calling model.

Boosting Productivity with AI Tools

- Discover AI tools that automate creating, testing, reviewing, and debugging code for peak efficiency.

Prompt Engineering

GenAI

LLM

RAG

Fine-tuned Model

OpenAI

Agentic Workflows

CrewAI

Cursor

LangChain

Learning Path for Additional Advanced Curriculum



Master your SDET skills by working on a LIVE distributed backend system like Flipkart, deployed on the cloud

7 weeks

Create and execute integration tests on LIVE Flipkart-like distributed backend systems deployed on AWS.

- ✓ Implement API testing to test individual microservices on the backend.
- ✓ Implement DB testing to test correctness of SQL tables for the common user journeys.
- ✓ Write e2e integrations test for data flows involving Kafka queues, REST APIs and DB across microservices
- ✓ Benchmark API performance for microservices using JMeter (Performance testing)

AWS

API Testing

DB Testing

Performance Testing

Microservices Testing

Integration Testing

Kafka

JMeter



Test Strategy & Design for different system architectures

2 Weeks

Learn the nuances of different system architectures and how to effectively test them

- Big Data systems
- Event driven architecture
- Microservices
- N-tier application

System Architecture

Test Strategy

Test Plan



Foundations of Cloud/Devops and SDLC best practices for new-age automation/SDET engineer

3 weeks

Learn important concepts required to become a competent new-age automation/SDET engineer. Get familiar with cloud concepts like virtualization, containerization and then get introduced to cloud services around compute, storage and networking.

Cloud concepts

CI/CD

Cloud services

Virtualization

Docker

Deployment

Scripting

Advanced Git

Test Bed Creation

Swagger

Postman

BDD

TDD

Agile



Hear from our Learners



Sonali
Dash

 BLACKHAWK
NETWORK

"Initially, when I joined Crio, I thought it would be like BootCamp programs. But after joining, I really liked the way Crio had organised the program..It's not at all like typical classroom-based training. You have to do it on your own."



Venkata
Amaresh
ninjacart

"Enrolling for Crio's programs proved to be a master stroke for me. It started from the basics and after every completed module, I saw myself making a big stride forward. I learnt a lot by implementing my learnings in a work-like environment."



Chakradhar D
verizon[√]

"I did internships in a few companies and then worked full-time. While working, I realised there was some gap between what I learned and what I was trying to do. Crio helped me bridge that gap."



Myleshan
Praburam



"The reason I chose Crio over other programs was- other platforms give us videos where you have to watch and learn, and do it on your own. But here at Crio, there's no watch and learn. There's only DO and learn."



Namrata
Kumari



"In most of the courses, you go through online classes and then do some problems, but this is completely DIFFERENT. A duration of six months is really long and, if you put effort, you can change your whole life, let alone switch from one company to another."



Sagar
Vrajalal



"If you are passionate about building software, you will love Crio's programs...In every interview, I was asked about my Crio Projects. Because of the way I worked on these projects, I was confident about my answers."



Program Details & Admission Process

1

Complete the application

2

Start your free trial

3

Earn your scholarship after the trial

4

Start your Crio Masters Program

PROGRAM DURATION

9 Months | Fully Online

PROGRAM START DATES

New batches start at the beginning of every month.

For further details,
drop us an email at

ping@criodo.com



