





KRUTANIC

A LADDER FOR BRIGHTER FUTURE

AUTOMATION TESTING ADVANCED PROGRAM





We assume you might have some questions..

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Why should I choose krutanic?

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Why is Automation Testing a good option?

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How will the Automation Testing program will help you achieve your Dream?

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Do you know how many job opening's are worldwide?

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What are the Automation Testing tool you need to master ?


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Will I get a certificate to enhance my resume?

↓

How should I enroll for this program?



We genuinely care for
your dreams and be
a path for your
success!

That's why our career focused programs seamlessly combine theory with practices, equipping you with real-world skills for employer's value

Ensuring you're not just ready for the next step but also for the future at large, we offer exclusive modules on leveraging generative AI in your field



Build Portfolio

Learn and perfect your skills - hands on by working on **industry relevant projects** to build a **solid portfolio**



Get Placement Ready

Gain the most In - demand skills to launch **switch, or advance your career** with actionable programs across fields



Community Building

Enjoy the best peer - led learning with tons of events while **networking & building lifelong relationships**

Why is Automation Testing a good career option?

Automation Testing is ever **evolving** & **YOU** need to evolve with it!

In today's fast-paced development world, Automation Testing is a game-changer. It helps businesses accelerate software delivery, ensuring quality with minimal manual effort.

With innovations like AI-driven testing, CI/CD integration, and advanced test automation tools, it provides a high-demand career path with lucrative opportunities.

Automation Testing isn't just a job, it's a necessity! Companies worldwide are shifting to test automation for higher efficiency, faster releases, and reduced costs. Become an Automation Test Engineer and future-proof your career today!

\$52.7 BILLION

Global Digital Marketing market by 2028...

#8 MOST IN - DEMAND SKILLS

Growing demand for automation expertise.

20,000+ Job Openings

Huge career scope in India alone!



How will the **Automation Testing** will help you achieve your **Dream**?

THEY SAW THEIR CAREERS TRANSFORM & YOU CAN TOO HERE'S HOW?

1

Online Induction

Meet your tribe, participate in fun yet intense challenges and kick-start your transformative journey.

2

Master the concepts of Automation Testing

Build a strong foundation in Automation Testing and learn the strategies used by industry leaders to become a data-driven marketer in 6 months.

3

Build proof of work

Work on industry-relevant assignments, participate in challenging projects to develop a portfolio that showcases your diverse set of skills.

4

Prepare for interviews & land your dream job

Participate in live portfolio review sessions, mock interviews, and get guidance throughout the job application process.

50000+

Job opening's worldwide

Automation
Test Engineer

QA
Automation Engineer

Test
Automation Architect

Performance
Test Engineer

Mobile
Automation Tester

API
Automation Tester

DevOps
Test Engineer

CI/CD Test Engineer

Software Development
Engineer in Test (SDET)

AI/ML Test Engineer

Cloud
Automation Tester

Security Test
Automation Engineer

Robotic Process
Automation (RPA) Tester

Automation
Consultant

Quality Assurance
Lead – Automation



Automation Testing Tools



Weeks 1-2

Introduction and Foundation

Discuss the evolution of software testing from manual to automated approaches. Analyze the advantages of automation, such as

- Increased test coverage
- Faster execution and repeatability
- Identify potential challenges including maintenance overhead and initial setup costs

Deepen understanding of programming languages commonly used in automation, focusing on advanced concepts. Explore Object-Oriented Programming (OOP) principles, emphasizing inheritance, polymorphism, and encapsulation. Implement data structures and algorithms relevant to test automation scenarios.

LEARNING OUTCOME

Explore the evolution from manual to automated testing, understanding key advantages and challenges.

Delve into complex programming paradigms, emphasizing design patterns and best practices for test automation.

Weeks 3-4

Core Automation Tools

Master advanced browser interactions, including handling multiple windows, frames, and alerts. Develop strategies for managing dynamic web elements using explicit and fluent waits.

Integrate Selenium with testing frameworks like TestNG or JUnit for enhanced test management.

Explore modern tools like Playwright and TestCafe, focusing on their unique features and advantages over traditional tools.

Implement cross-browser testing strategies to ensure application compatibility across different environments.

LEARNING OUTCOME

Implement advanced browser controls, including handling dynamic elements and asynchronous operations.

Assess modern automation tools, comparing features to determine optimal use cases for various testing scenarios.

Weeks 5-6

Test Frameworks and Design Patterns

- Utilize advanced features such as data providers, parameterized tests, and custom annotations.
- Configure parallel test execution to optimize testing time.
- Implement the Page Object Model (POM) to enhance test maintenance and readability.
- Apply Factory and Singleton patterns to manage test data and driver instances efficiently.

LEARNING OUTCOME

Organize and execute test suites efficiently, leveraging annotations and parallel execution capabilities.

Utilize patterns like Page Object Model and Factory to create scalable and maintainable test frameworks.

Weeks 7-8

API and Web Services Testing

- Design comprehensive test cases for various HTTP methods, ensuring thorough validation of API endpoints.
- Implement authentication mechanisms, including OAuth and API keys, in test scenarios.
- Leverage Postman for manual and automated API testing, utilizing its scripting capabilities.
- Employ RestAssured for seamless integration of API tests within Java-based frameworks.
- Utilize SoapUI for functional and security testing of SOAP services.

LEARNING OUTCOME

Design and execute test cases for API endpoints, validating responses and ensuring integration fidelity.

Automate API testing workflows, incorporating them into continuous integration pipelines for rapid feedback.

Weeks 9-10

Continuous Integration and Continuous Deployment (CI/CD)

- + Configure Jenkins pipelines to automate test execution upon code commits.
- + Implement Pipeline as Code using Jenkinsfile for version-controlled CI/CD configurations.
- + Master advanced Git workflows, including feature branching, rebasing, and merge strategies.
- + Set up automated triggers in CI/CD pipelines based on repository events.

LEARNING OUTCOME

Set up automated test executions triggered by code changes, ensuring immediate validation of new commits.

Master branching strategies, conflict resolution, and collaborative workflows to maintain code integrity.

Weeks 11-12

Mobile Application Testing

- Deep dive into Appium for automating both Android and iOS applications, covering setup and advanced configurations.
- Handle complex gestures, multi-touch actions, and system notifications within test scripts.
- Manage various device interactions, including GPS, camera, and biometric authentication.

LEARNING OUTCOME

Configure Appium for cross-platform mobile testing, handling gestures and platform-specific nuances.

Script multi-touch actions, manage application permissions, and interact with system alerts during tests.

Weeks 13-14

Performance and Load Testing

- Configure JMeter for simulating high-load scenarios, including distributed testing setups.
- Explore LoadRunner for enterprise-level performance testing, focusing on scripting and analysis.
- Collect and interpret key performance indicators such as response time, throughput, and error rates.
- Identify performance bottlenecks and provide actionable recommendations for optimization.

LEARNING OUTCOME

Simulate user loads to assess application performance, identifying potential bottlenecks under stress.

Interpret throughput, latency, and resource utilization data to optimize application responsiveness.

Weeks 15-16

Security Testing

- Conduct advanced vulnerability assessments to identify security flaws in applications.
- Implement security testing methodologies to ensure robust application security.
- Utilize OWASP ZAP and Burp Suite for automated security testing, focusing on common vulnerabilities.
- Identify performance bottlenecks and provide actionable recommendations for optimization.

LEARNING OUTCOME

Conduct penetration tests and vulnerability scans, ensuring the application adheres to security best practices.

Integrate security testing into the development pipeline, automating the detection of common vulnerabilities.

Weeks 17-18

Advanced Test Management

- ✦ Develop strategies for handling complex test data scenarios, including data generation and masking.
- ✦ Create custom reporting solutions and dashboards to visualize test results and metrics.

LEARNING OUTCOME

Create and maintain diverse data sets to validate application behavior under various conditions.

Develop insightful reporting mechanisms to track test coverage, defects, and performance trends.

Weeks 19-20

Emerging Trends and Capstone Project

- Explore the integration of AI-driven test automation tools to enhance testing efficiency.
- Implement a comprehensive automation solution that integrates learned concepts, demonstrating proficiency in advanced automation testing.

LEARNING OUTCOME

Investigate how AI can enhance test case generation, defect prediction, and maintenance of test suites.

Apply acquired skills to a comprehensive project, showcasing the ability to design and implement an automated testing solution.

Weeks 21-24

Placement Preparation

This module is designed to prepare students for the job market by providing them with the necessary tools and strategies for a successful career in performance marketing. Students will focus on refining their resumes, practicing interviews, and understanding industry expectations to ensure they are ready for potential job opportunities.

- + Resume Building and Optimization for Marketing Roles
- + Crafting a Strong LinkedIn Profile and Personal Branding
- + Mock Interviews and Interview Preparation
- + How to Present a Performance Marketing Portfolio
- + Networking Strategies and Building Industry Connections

LEARNING OUTCOME

Prepare for a successful job search and interviews with a professional portfolio and job-ready skills.

Will I get a certificate to **enhance** my resume?

Upon completing the Automation Testing Advanced Program, you'll earn a **certificate**, highlighting your **skills and expertise**.

**Showcase
your new
abilities
and build a
stronger
professional
portfolio..**



**All Automation Testing Concepts, Strategies,
Assignments, Tools & Community Events
At One Affordable Price**

60,999 (Including GST) **24 weeks | 60 Seats per cohort**

- Access to an Exclusive Community of Top Automation Testing professionals and Industry Professionals.
- One-Year Access to Comprehensive Course Materials, Including Pre-reads and Training Resources.
- Exclusive Invitations to Physical Events, Networking Meetups, and Workshops.
- Personalized Guidance from Guest Mentors with Experience in Leading Startups.
- Real-World Insights and Strategies to Accelerate Your Career.

Our Alumni's in



SONY



ORACLE

HCL



Deloitte.



TOYOTA



I'm all in! **How should
I sign up?**

**READY TO TAKE CHARGE
OF YOUR CAREER?**

Take your first steps towards a rewarding
career in Automation Testing by filling
out application form



Fill out the
application
form



Application
review by
experts



Selected
candidate
will receive
an offer

**FINALLY PROGRAM
KICK OFF &
ONBOARDING**

Apply now

Got more question for us? Feel free to
reach out to us at www.krutanic.com

