



ADEMIZE SOLUTION

Course Outline

LEARN . GROW . SUCCEED



Welcome to our Course

This course provides end-to-end training in both Manual and Automation testing. After completing the training, you will attend a boot camp where you will work on a real time project application for 3 weeks. The grooming phase includes resume preparation, mock interviews, and a question bank.

You will need around five months to enter the job market. We provide grooming sessions until our students secure a job. The training is 100% hands-on, and no prior knowledge is required. You can take two free classes before deciding whether to continue.



TRAINING@ADEMIZE.COM

What you will learn in this Course

Our software testing course is designed to equip you with the skills and knowledge necessary to navigate the job search, excel in interviews, and secure a job.



THE KEY TAKEAWAYS FOR THE COURSE

- ✓ Always be learning
- ✓ Know that you don't know
- ✓ Ask for Help if necessary
- ✓ There's always a solution



Course Outline

Manual

Introduction to Software Testing

- > Importance of software testing.
- > Why does software have defects.
- > Quality assurance vs. quality control.
- > Testing objectives and principles.

Software Development Life Cycle (SDLC)

- > Various SDLC models (Waterfall, Agile).
- > The role of testing in each phase.

Software Testing Life Cycle (STLC)

- > Detailed explanation of each STLC phase (planning, design, execution, reporting, closure).

Testing Techniques

- > Boundary value analysis.
- > Equivalence partitioning.
- > Decision table testing.
- > State transition testing.
- > Use case testing.

Types of Testing

- > Functional testing.
- > Non-functional testing (usability, performance, security).
- > Black box testing.
- > White box testing.
- > Grey box testing.
- > Unit testing
- > Integration testing
- > System testing
- > Acceptance testing.
- > Regression testing.
- > Exploratory testing.



Course Outline

Manual

Test Planning

- > Importance of software testing.
- > Why does software have defects.
- > Quality assurance vs. quality control.
- > Testing objectives and principles.

Test Case Design

- > Writing effective test cases.
- > Test case templates and best practices.
- > Test data preparation.

Defect Management

- > Defect life cycle.
- > Defect reporting and tracking.
- > Using defect tracking tools.

Test Reporting and Closure

- > Generating test reports.
- > Test metrics and analysis.
- > Test closure activities.

Practical Application

- > Hands-on Exercises:
 - > Executing test cases on sample applications.
 - > Identifying and reporting defects.
 - > Real-world Scenarios:
 - > Applying testing techniques to practical examples.
 - > Simulating real-world testing challenges.
- Project & Test Management Tools:
- > Learning Project & Test Management Tools (Jira & ALM/QC).



Course Outline

Automation

Objectives

- > Understand automation testing.
- > Learn to select appropriate automation tools and frameworks.
- > Develop proficiency in writing automated test scripts.
- > Implement test automation for web applications.
- > Learn & clear concept of CI/CD pipeline & Git as source management.
- > Learn to analyze and report test results effectively.
- > Understand how to implement Test Driven Development (TDD) and Behavior Driven Development (BDD) testing.
- > Learn Automation Testing Tools & Language.
- > Learn standard industry Automation frameworks from scratch.





Course Outline

Automation

Introduction to Automation Testing

- > What is automation testing?
- > Benefits and drawbacks of automation.
- > When to automate and when not to.
- > Test automation pyramid.
- > Types of automation testing (Web, API, Mobile etc.).
- > Introduction to different automation tools and frameworks.
- > Test environment setup.

Programming for Automation

- > Programming fundamentals (variables, data types, class, interface, object, loops, condition, methods, collection, Array, constructor, functions etc.).
- > Object-oriented programming (OOP) principles.
- > Common programming languages used in automation (Java).
- > Working with regular exceptions, exceptions handling, file handling.
- > Working with different types of methods.
- > List, Set, Map Interface.

Web Automation

- > Introduction to Selenium.
- > Introduction to Selenium Features.
- > Introduction to Selenium WebDriver, WebDriver architecture.
- > Setting up Selenium environment.
- > Locators: ID, name, XPath, LinkText, CSS selectors).
- > Performing browser actions (navigation, clicks, input, SendKey etc.).
- > Handling dynamic elements and waits.
- > Working with frames, dropdown, mouse-hover, multiple windows, calendar, links and alerts.
- > Introduction to Maven and use maven and working with maven project.
- > Page Object Model (POM) design pattern.
- > Introduction to TestNG and Cucumber BDD.
- > Working with different browser Chrome, IE.



Course Outline

Additional

Automation Framework

- > Introduction to framework.
- > Introduction Cucumber BDD framework design.
- > Build the Automation Framework from scratch.

SQL

- > Introduction to Database.
- > Introduction data and data type.
- > Introduction to SQL, SQL Command, Join, SQL Queries
- > SQL Syntax.

API Testing

- > Introduction to APIs (REST, SOAP).
- > API testing concepts and tools (Postman).
- > Sending API requests and validating responses.
- > Working with JSON data, response, request, .
- > API testing methods, URI, resource, parameter.
- > API documentation, API virtualization.

GIT/JENKINS/CICD

- > Introduction to GITHUB and Using GIT As Test Engineer.
- > Introduction to Jenkins and and Using Jenkins As Test Engineer.
- > Clear concept on CI/CD process.

Bootcamp

- > Performing 3 weeks bootcamp
- > Working with project in scrum team
- > After bootcamp Presentation/Demo



Course Outline

Exam

Manual & Java Exam

- >After completing Manual & Java concept, all students must attend the Manual & Java Exam.
- >The exam is neither about passing nor failing.
- >Know what you learned, how much more study you need to do, and identify any gaps in your study.
- >You can assess yourself to see if there are any gaps in your study or if you need help.





GOOD
COMMUNICATION



GOOD
LEARNER



OPEN
SUGGESTIONS



QUALITY
THINKING



TIME
MANAGEMENT



TECHNICAL
SKILLS



PASSION & ATTITUDE





ADEMIZE SOLUTION

About Ademize

Learn . Grow . Succeed

Ademize Solutions is a US based IT Development & IT Training company committed to provide end-to-end IT Development Solutions and IT Training for becoming best IT Engineer.



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