



Advance Certification in Software Testing and Automation

**Complete course of Software Testing and Automation:
Begin your career as an Automation Tester for Software
Development (SDET)**

Advance Certification in Software Testing and Automation

The business processes of today's organisations have evolved significantly. They want fewer employees and more work. Software Development Engineer in Test (SDET) is the role that occurs when it comes to versatile skill with a single person. They can manage the testing of the generated software because they are the only professionals that can participate in both development and testing at the same time. For this reason, a Software Development Engineer in Test (SDET) can assist with both the framework design and the development of high-performance code.

JOB

17.06% expected in 2023-2029

The global Automation Testing market size in 2022 was 24230.0 million US dollars, and it is expected to be 72981.5 million US dollars by 2029, with a compound annual growth rate of 17.06% expected in 2023-2029.

Growth

Growing Automation Industry

The global automation testing market size is poised for significant growth, with a valuation of USD 15.39 Billion in 2023 and projected to reach USD 69.85 Billion by 2032, growing at a CAGR of 18.7% during the forecast period 2024 to 2032

Demand

High Demand

By 2023, India and US will face a demand supply gap of 300,000 Microsoft Azure Infrastructure Solutions

About Program

This certification course has been designed by industry experts. You will study theory, methods, and resources to become a software tester or quality assurance specialist with this training. There is high demand of SDET in the market. Software Development Engineer in Test (SDET) is a developer with the primary responsibility development of software product as well as writing framework and tools to test that product.

Key Highlights

- ✓ 120 Hrs Instructor-led virtual Training
- ✓ Recording would be provided of all sessions
- ✓ Project / Lab based Training
- ✓ Certification Assistance will be provided
- ✓ Trainer has 18+ years of industry experience

Program Curriculum

Module 1

INTRODUCTION TO SOFTWARE TESTING AND JAVA BASICS

- Introduction to Software Testing
- Introduction of Java
- Eclipse/ IntelliJ IDEA
- Variables and Data type
- Conditional Statements
- Arrays (1D and 2D) Loops in Java

Module 2

ADVANCE JAVA CONCEPTS

- OOPS Concepts
- Loops
- Array and String Concepts
- Collections

Module 3

Design Patterns

- Page Object Model Pattern
- Factory Design Pattern
- Façade Pattern
- Singleton Pattern
- Fluent Page Object Model

Module 4

Selenium WebDriver

- Selenium WebDriver
- Locators
- Waits
- Exception Handling
- Pop-up Handling in Selenium
- Debugging Common WebDriver Test Failures

Module 5

TestNG with Selenium Webdriver

- Running Selenium Tests using TestNG
- Benefits of TestNG Framework
- Networking for an App Service
- Various Waits in Selenium WebDriver

Module 6

SELENIUM - HANDLING IFRAMES, TABS, AND WINDOWS

- Handling iFrames, Tabs, and Multiple Windows in Selenium
- Maven and Selenium Dependency Installation
- Components IP Address
- SELENIUM - PAGE OBJECT MODEL (POM) PATTERN

Program Curriculum

Module 7

INTRODUCTION TO CUCUMBER AND BDD

- Introduction to Cucumber and Behaviour-Driven Development (BDD)
- Understanding Gherkin
- Cucumber Features and Step Definitions
- Cucumber Reports
- Creating a POM Framework with Cucumber
- Writing Feature Files and Step Definitions for Selenium Tests

Module 8

CONTINUOUS INTEGRATION - INTRODUCTION TO GIT AND JENKINS

- Introduction to GIT Commands
- Setting Up Jenkins for CI
- Jenkins Job Configuration
- Running Selenium Tests in an Automated Way Using Jenkins

Module 9

API Testing

- Introduction of API and API testing
- Steps of API Testing
- Types of API Testing
- Tools of API Testing
- Types of API Testing

Course **Projects**

Projects cover the following industries:



Retail



Social Media



Banking



Healthcare



E-Commerce



Insurance



Supply Chain

Case Study 1 - Testing of Web application

The most popular and widely used type of test automation is web automation. But be sure to extend beyond the fundamental design flow. Additionally, walk them through the whole scenarios that call for your expertise in coding to interface with numerous pages.

Case Study 2 - API Automation

With the rise of microservices, public-facing APIs & IoT applications, IoT testing has become an integral part of the software development cycle. Many enterprises of automation talent that can help them with API testing. So, it would be feasible to add an API testing project to your portfolio.

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