

Automation
Testing Program

Duration of the training: 177.5 Hours (142 Hours Content + 35.5 Hours Q&A)





Manual Testing (25 Hours + 6 Hours Q&A) Introduction to software testing

Software development process

Levels and types of testing

Testing techniques

Testing process and test case writing

Bug reporting, Test metrics, RTM, and test environment

Web testing, DB testing, and cloud testing

PRACTICAL INCLUDES: 0

Understanding of given requirements and Test Plan document

Preparing Test Scenarios in Excel

Preparing Test cases along with Test Data in Excel

Test Case Execution and Report generation in Excel

Understanding Jira for Test Case Management

Understanding Jira for Defect logging and tracking

MODULE 02:

Java

(25 Hours + 6.5 Hours Q&A)

Introduction to Java

Data handling and functions

Object-oriented programming in Java

Inheritance

Encapsulation

Polymorphism

Data Abstraction

Packages

Collection Framework

List Interface with Array List, LinkedList, Vector

Set Interface with HashSet, Tree Set, LinkedHashSet

Map Interface with HashMap

File handling

PRACTICAL INCLUDES: 0



Create a workspace and Java project

Write your first program in Java

Write a program on Operations like

Addition, Multiplication, Subtraction, Division

Control Flow Statements

Write a program to understand Classes, Objects, Inheritance

Methods, Constructor, Modifiers

Understand the Collections with List, Array List, LinkedHashSet

Set and Map Interface, HashSet, HashMap

Exception handling in Java program

MODULE 03: ②

WebDriver

(38 Hours + 9.5 Hours Q&A)

Selenium and its Components

Selenium WebDriver and Locators

Interacting with Web Elements Part-I and Waits in Selenium

Interacting with Web Elements Part-II

Interacting with Web Elements Part-III

Robot Class to handle window operations

TestNG Framework

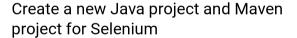
Automation Frameworks-I

Automation Frameworks-II

Page Object Model

BDD Framework with Cucumber and Selenium Grid

PRACTICAL INCLUDES: 0



Write a program to launch the browser and different applications

Write a script for Verification of Page Title and Closing Browser

Understand various Navigation commands like Back, Forward, Refresh

Understanding different web Elements and Locators to identify textbox, link, button, dropdown

Write automation script for alerts, frame and multiple window handling

Handling mouse and keyboard actions Preparing Page Object Model for application

Automation script for cross browser Test

Automation script for capturing screenshots

Understanding TestNG Script and TestNG Reports

Generating Extent Report

Understanding Cucumber Scenarios using Gherkin language

Preparing automation script in cucumber with hooks and tags

Preparing cucumber Extent Reports



API

(10 Hours + 2.5 Hours Q&A)

Fundamentals of web services

Introduction to API testing

Postman basics

Postman advanced topics

Postman Newman

REST assured basics

REST API testing

JSON manipulation

REST framework

PRACTICAL INCLUDES: 0

Generate GET, POST, PUT, DELETE Request in Postman

Generate Test script using Chai library in Postman

Executing collections in Postman

Generating reports in Postman

Setup Rest Assured library in Maven project

Automate GET, POST, PUT, DELETE request

Validate JSON Response

Understand Authentication in Rest API



Appium(10 Hours + 2.5 Hours Q&A)

Introduction To Mobile Testing

Introduction To Appium

Automating the Application Management Actions and Synchronization

Automating the Gestures and Key Events Handling using Appium

Network Management and Performance Analysis using Appium

Automating Hybrid and Native Apps

PRACTICAL INCLUDES: 0

Installing Appium on Windows/Mac

Preparing Appium's first script for the Android application

Handling Mobile elements using Appium Inspector

Handling alerts, toggle Wi-Fi, toggle data and airplane mode

Handling Mobile gestures and key event

Reports generation in Appium



JavaScript For Tester

(10 Hours + 2.5 Q&A)

Introduction to Javascript, DOM and writing JavaScript Program

JavaSCript Variables,Data Types and Operator

Conditional Statements: If-else, Switch case

Looping statements: While, Dowhile and For loop

Functions in JavaScript

Working with Objects in JavaScript

Arrays in JavaScript

Strings and Numbers in JavaScript

OOP Concepts in JavaScript

Prototypes

Converting JSON Object to JavaScript



Cypress

(10 Hours + 2. 5 Hour Q&A)

What is cypress

Understanding cypress architecture and benefits

Selenium vs Cypress -Comparison

Downloading and Installing Cypress

Quick tour of Cypress Test Runner and configuration files

What is Cypress Test Runner

Write your first Cypress Test

Electron Difference between Cypress and cy

Cypress locator strategies and how to construct them

Cypress inbuilt plugin in test Runner to generate locators

Basic Assertion in writing the tests with Cypress

Interacting with Elements , Radio Buttons and checkboxes

Interacting with Dropdown – Use of Select class, Auto-suggest option

MODULE 08: 4

Playwright (10 Hours + 2.5 Hour Q&A) What is Playwright

How To Install Playwright

How To Write First Playwright Test Case With Assertion

How To Write Login Test In Playwright | Interact With Web Element In Playwright

How To Get Text In Playwright | Verify Text In Playwright

How To Maximize Browser Window In playwright | Viewport In Playwright

How To Take Screenshots | Videos | Trace Files in Playwright

How To Record And Play Scripts In Playwright | Playwright Test Generator| Codegen Playwright

Handle Dropdown In Playwright And Verify **Dropdown Values**

MODULE 09:



Capstone Projects (4 Hours + 1 Hour Q&A)

Capstone Project using Selenium, Maven, and TestNG Framework ---> E-commerce Application domain

Capstone project using Selenium, Maven, and TestNG Framework ---> Human Resource Management domain

Capstone project using Selenium, Maven, TestNG, and REST Assured Framework ---> Telecom doma



"Self-Learning" module videos are available on the LMS dashboard throughout the training course, allowing you to learn at your own pace and convenience.

Overview of DevOps

Version Control with Git

Continuous Integration with Jenkins

Introduction to Docker

PRACTICAL INCLUDES: 02

Create your GitHub account

Integrating GIT with Eclipse

Perform various operations (Commit, Push, Pull Stash, etc.) in GIT

Working with Git branch

Setup Jenkins instance in your local machine

Install plug-ins in Jenkins

Create and execute the jobs

Integration of Eclipse git and Jenkins



"Self-Learning" module videos are available on the LMS dashboard throughout the training course, allowing you to learn at your own pace and convenience.

Introduction to SQL

DML

Create Database

Drop Database

Select Database

Create Table

Insert Query

Select Query

Delete Query

Joins

Retrieve data from multiple tables

Inbuilt functions in SQL

Create advanced database objects

PRACTICAL INCLUDES: 02

Installing MySQL on Machine

Create table and insert records in table

Perform CRUD Operation in SQL

Join two tables using inner join, outer join

Understanding keys in SQL

Understanding functions Math, String, Date and Aggregate Functions

Understanding triggers and constraints, store procedures

Begin Now!

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