

TESTING COURSE CONTENT

MANUAL TESTING

Module - I

- Basic Fundamentals, Terminology
- SDLC, Software models, STLC Different levels of testing
- White Box & Black Box testing
- Verification & Validation
- Static & Dynamic Testing
- Smoke, Sanity, Regression, Retesting, Adhoc, Exploratory testing
- Test design techniques
- System testing types
- Use cases, Tests scenarios & Test case
- Test Environment & Execution
- Defect Reporting
- Test Closure
- Test Metrics

Module - II

- Project Introduction
- Understanding Functional Requirements from FRS
- Creating Test Scenarios, Creating Test Cases
- Test Execution, Bug reporting & tracking
- Test sign off
- 22 Year 12

Module - III

Agile/ScrumProcess:

- What is Agile?
- What is Scrum/Scrum Team?
- What is Sprint?
- What is User Story?
- How to give story points/How to estimate user story
- What is Definition of Done & Definition of Ready
- Different Sprint Activities
- Sprint Planning/Backlog Refinement/Sprint Review/ Sprint Retrospective

JIRA Tool:

- How to install and configure JIRA tool
 - How to create an EPIC/User Stories in JIRA
 - Creating Sprints in JIRA
 - Sprint life cycle in JIRA
 - Backlogs in JIRA
 - Creating bugs in JIRA
 - How to write Test cases in JIRA with zephyr plugin
 - Creating Test Cycles and Execute Test cases in JIRA
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AUTOMATION CONTENTS

Module - I

- Limitations in Manual Testing
- Need for going for Automation Testing
- How to select the tools
- Introduction to Selenium (IDE, Web Driver, Grid)
- Selenium basic commands (Page title, Navigation etc)
- Locators in Selenium
- Handling Autosuggestions, Dropdowns
- Handling file upload using AutoIT
- Handling alerts, Taking screenshots
- Handling Keyboard, mouse events, multiple windows
- Alerts, Frames
- Dynamic xpath creation using different functions
- Waits in Selenium
- Handling WebTable, WebCalendar
- Handling Properties file in Selenium
- Cross Browsing using selenium

Module - II

- TestNG framework
- Grouping concept
- Parameterization
- Data Provider concept
- Apache POI
- Prioritization concept
- Report Generations (TestNG, Extent, Allure)
- Keyword driven, Data driven, Hybrid approach
- Page Object
- Model Maven
- Jenkins Integration
- Git Repo

Module – III

- BDD Framework Introduction
- Cucumber Intro and setup
- Gherkin language keywords
- Creating Feature files
- Step Definitions
- Writing scenarios
- Creating Test Runner class
- Thread Localization

API TESTING CONTENTS

Chapter 1 – Getting started with Postman for API Testing:

- What is an API?
 - What is Postman?
 - Postman Setup
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- Executing an API Request
- API Testing with Postman
- Summary

Chapter 2 – Understanding API Authorization Options in Postman

- Basic
- Auth API Keys
- OAuth2

Chapter 3 – Using Postman for Automation Testing

- Basic Auth
- API Keys
- OAuth 2

Chapter 4 – Using Test Scripts in Postman

- Postman Test Scripts
- Pre-request Scripts
- Ready for Automating Requests

Chapter 5 – Running Postman in CI using Newman

- What is Newman?
- Running Tests with Newman
- Running Newman in CI

Note:

- Our top priority is to strengthen your logical thinking and prepare you to tackle programming Challenges across various platforms. Every topic will be presented with multiple examples.
 - Learn how to analyze a problem to reach the best possible solution.
 - Topics listed are not in the order they will be covered.
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