

## Module 8: Project Work

- Real-Time Project
- Manual and Automation Testing on a Live Application
- Test Planning, Execution, and Reporting
- Integration of Selenium, Cucumber, and Jira in the Project
- Project Documentation and Presentation
- Preparing for Real-World Scenarios

## Module 9: Career Preparation and Soft Skills

- Communication Skills
- Professional Communication for Testers
- Email and Documentation Etiquette
- Confidence Building
- Presentation Skills and Group Discussions
- Mock Interview Sessions
- HR Handling and Call Sessions
- Behavioral Question Practice
- Tips to Handle HR Rounds
- Profile Building (e.g., Naukri, LinkedIn)
- Crafting a Professional Resume
- Highlighting Relevant Testing Skills

## Module 10: Course Goals and Conclusion

- Setting Your Career Goals
- Creating a Roadmap to Become a QA Professional
- Final Mock Interviews and Feedback
- End-to-End Interview Preparation

### Goal of the Course

"To build a strong foundation in software testing, empower learners with industry-relevant skills, and prepare them for successful careers in IT with confidence and professionalism."



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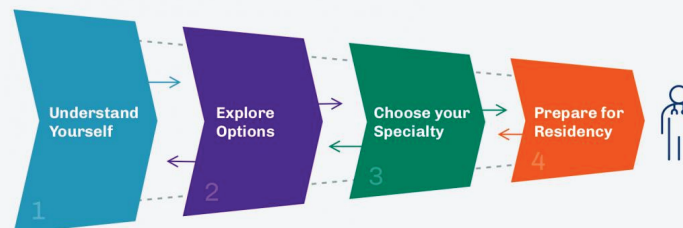
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## Software Training Placements



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## Syllabus

# Advance Software Testing (Manual & Automation)



### SOFTWARE TESTING

#### Module 1: Introduction to Software Testing

- Basics of Software Testing
- What is Software Testing?
- Importance of Testing in SDLC
- Types of Testing: Manual and Automation
- Principles of Testing
- Software Development Life Cycle (SDLC)
- Models: Agile, Waterfall, V-Model
- Testing Life Cycle and Bug Life Cycle
- Testing Documentation
- Test Plan, Test Cases, and Test Reports
- Requirements Analysis and Traceability Matrix

#### Module 2: Manual Testing

- Functional Testing Techniques
- Black Box Testing, White Box Testing, Grey Box Testing
- Non-Functional Testing
- Performance, Security, Usability Testing
- Defect Management
- Bug Reporting and Tracking
- Severity vs. Priority
- Tools for Manual Testing
- Introduction to Jira for Test Case Management
- Hands-on Bug Tracking and Reporting

#### Module 3: Automation Testing

- Introduction to Automation Testing
- Why Automation Testing?
- Benefits and Challenges
- Selenium WebDriver
- Selenium Basics: Setup and Configuration
- Writing Test Scripts in Java
- Locators, WebDriver Commands, and TestNG

- Cucumber Framework
- Behavior Driven Development (BDD) Basics
- Writing Gherkin Scripts
- Implementing Cucumber with Selenium
- Automation Frameworks
- Data-Driven, Keyword-Driven, and Hybrid Frameworks
- Hands-on Building Frameworks

#### Module 4: Core Java for Testers

- Java Basics
- OOPS Concepts: Inheritance, Polymorphism, Encapsulation
- Exception Handling, Collections, and File Handling
- Advanced Java for Selenium
- Working with APIs, Database Connectivity
- Writing and Executing Test Scripts

#### Module 5: SQL for Testers

- SQL Basics
- Database Concepts: Tables, Keys, Relationships
- CRUD Operations
- Writing SQL Queries
- Joins, Subqueries, Aggregate Functions
- Hands-on SQL Querying for Testing

#### Module 6: Linux for Testers

- Linux Basics
- Linux Commands and File Management
- Understanding Logs and Testing Environments
- Hands-on Practice
- Setting Up Test Environments Using Linux

#### Module 7: Cucumber Framework

- Introduction to Cucumber
- Cucumber with Selenium
- Cucumber Installation & Setup
- Data-Driven Testing in Cucumber
- Gherkin Language
- Cucumber Reports & Logging
- Cucumber Hooks & Tags