

Software Testing Course Structure

Duration – 70 Hours (4 Months)



Introduction to Software Testing -- 8 Hours

- What is Software Testing, QA, and QC?
- Seven principles of software testing.
- Software Development Life Cycle (SDLC) models (Waterfall, Agile, V-Model).

Software Testing Life Cycle (STLC) & Documentation -- 8 Hours

- Requirement analysis and test planning.
- Test strategies and test documentation (Test Plan, Test Scenarios, Test Cases).
- Traceability Matrix.

Testing Techniques & Types -- 5 Hours

- Functional Testing: Black Box, White Box, Gray Box, Unit, Integration, System, Acceptance testing.
- Non-Functional Testing: Performance (Stress, Load, Endurance), Security, Usability testing.
- Test Design Techniques: Equivalence Partitioning, Boundary Value Analysis, Decision Table testing.

Defect Management & Tools – 5 Hours

- Defect life cycle and status reporting.
- Using bug tracking tools like Jira.

Agile Methodology -- 5 Hours

- Agile Scrum fundamentals, roles, events, and boards.

Programming Essentials (e.g., Core Java/Python) -- 6 Hours

- Basic syntax, data types, control flow, loops, and Object-Oriented Programming (OOPs) concepts.
- Environment setup (JDK, Eclipse/IntelliJ IDE).

Introduction to Automation & Selenium Basics -- 8 Hours

- Overview of automation testing and frameworks.
- Setting up a Selenium project, WebDriver basics, and browser commands.
- Understanding DOM structure and using locators (XPath, CSS Selectors).

Advanced Selenium & Frameworks -- 5 Hours

- Handling various web elements (dropdowns, alerts, windows, frames).
- Synchronization (Waits) and keyboard/mouse events.
- Introduction to TestNG or JUnit frameworks, Maven integration, and Page Object Model (POM) design patterns.
- Live and real-world examples of ML applications.
- Developing a small project to apply learned concepts.

Hands-On Project, Deployment & Cloud Storage – 20 Hours.





Contact Us Today!



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