Manual Testing Syllabus:

1. *Introduction to Software Testing:*
   - *Definition and importance of software testing.*
   - *Different testing levels and types.*
   - *Role of manual testing in the testing life cycle.*
2. *Basics of Testing:*
   - *Understanding requirements and specifications.*
   - *Test case design and execution.*
   - *Defect life cycle and reporting.*
3. *Testing Techniques:*
   - *Black-box testing.*
   - *White-box testing.*
   - *Grey-box testing.*
4. *Test Planning and Strategy:*
   - *Developing a test plan.*
   - *Defining testing scope and objectives.*
   - *Risk analysis and mitigation strategies.*
5. *Test Execution:*
   - *Test environment setup.*
   - *Test data creation.*
   - *Execution of test cases.*
6. *Defect Tracking and Reporting:*
   - *Identifying and logging defects.*
   - *Defect life cycle.*
   - *Generating defect reports.*
7. *Testing Documentation:*
   - *Creating test cases and test scripts.*
   - *Test summary reports.*
   - *Traceability matrix.*
8. *Quality Assurance:*
   - *Importance of QA in the development process.*
   - *QA methodologies and best practices.*
9. *Introduction to Automation Testing:*
   - *Overview of automation testing.*
   - *When to automate testing.*
10. *Practical Exercises and Case Studies:*

Hands-on exercises for better understanding.
Case studies based on real-world scenarios.

Manual testing –

Level 1- Manual Testing concepts

- What is software?
- Types of software
- What is Software testing
- What is software quality
- Project vs product
- Importance of testing
- Error, bug/defect, failure
- Why bug occurs
- SDLC
- STLC
- Types of Models – waterfall, spiral, V Model
- QA,QC,QE
- Static and dynamic testing
- Levels of software testing
- White box testing and black box testing
- Verification and validation
- System testing types
- GUI testing
- Functional and nonfunctional testing
- Test design technique
- Re testing, Regression testing
- Exploratory testing
- Adhoc testing
- Sanity and smoke testing
- End to end testing
- Use case, test scenario, test case
- Test environment and test execution
- Defect reporting
- Test closure
- Test metrics

Level 2 - Software testing projects –

- Project intro
- Understanding functional requirements from frs
- Creating test scenario
- Creating test cases
- Test execution
- Bug reporting and tracking
- Test sign off

Level 3 - Agile testing + Jira tool

Agile /scrum process

- What is Agile
- What is scrum /scrum testing
- What is sprint
- What is user story
- How to give story point/ how to estimate story point
- 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 on Epic/user stories in Jira
- Creating sprint in Jira
- Sprint life cycle in Jira
- Backlog in Jira
- Creating bugs in Jira
- How to write test case in Jira with zephyr plugin?
- Creating test cycles and execute test case in Jira

Level 4 - Mobile testing

Introduction to Mobile Testing
What is Mobile Testing?
Why is Mobile Testing Important?
What Do You Need to Know to Be a Good Mobile Tester?
Mobile Application SDLC

Mobile Application Types
Mobile Web
Native Apps
Developer Tools

Mobile Test Strategy and Planning

Level 5 – Database (Basic)

Level 6 – API (Basic)

- What is API testing?
- What is API?
- How do APIs work?
- Types of API testing?
- What protocols can be tested using API Testing
- Different types of status code

Resume Building and Mock up interview

Improvement session –

1. QUIZ /exercise after every class.
2. Group Discussion

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2 Projects - 1 Live and 1 Assessment

After course –

1. You will get interview questions.
2. Certificates of course completion
3. Lifetime Support
4. Intensive interview preparation
5. Building a Resume, Conducting Mock Interviews, Preparing for Interviews

BRAINONE TECH