Manual Testing Course Content

1. Introduction to Software Testing

- What is software testing?
- Importance of testing in the software development lifecycle
- Different types of testing (manual vs. automated)
- Overview of the software development lifecycle (SDLC)

2. Testing Fundamentals

- Objectives of testing
- Testing principles
- Defect life cycle
- Quality assurance vs. quality control

3. Types of Testing

- Functional testing
- Non-functional testing (performance, usability, security)
- Manual testing vs. automated testing
- Black-box testing vs. white-box testing
- Exploratory testing vs. scripted testing

4. Testing Methodologies

- Waterfall model
- Agile testing practices (Scrum, Kanban)
- V-Model
- Risk-based testing

5. Test Planning and Design

- Creating a test plan
- Defining test objectives and scope
- Test strategy and approach
- Writing test cases (test case structure, best practices)
- Test data preparation

6. Test Execution

- Executing test cases
- Reporting defects (defect tracking tools, defect life cycle)
- Re-testing and regression testing

- Test completion criteria

7. Test Documentation

- Importance of documentation in testing

- Types of test documentation (test plans, test cases, test reports)

- Creating and maintaining test metrics and reports

8. Tools for Manual Testing

- Overview of popular testing tools (JIRA, Bugzilla, TestRail, etc.)

- Introduction to test management tools

- Using defect tracking tools

9. Exploratory Testing

- Principles and techniques of exploratory testing

- Session-based testing

- Designing and executing exploratory tests

10. Usability Testing

- Importance of usability testing

- Techniques for usability testing

- Gathering user feedback and interpreting results

11. Performance Testing (Basic Concepts)

- Introduction to performance testing

- Types of performance testing (load, stress, endurance)

- Basic tools and metrics for performance testing