

# TRAINING CONTENTS

Session No.	Topics	No. of class hours
1	<b>Module 1: Software Testing Basics</b>  <b>Software Development Life Cycle</b> <ul style="list-style-type: none"> <li>• Waterfall Model</li> <li>• Spiral Model</li> <li>• Prototype Model</li> <li>• V-Model</li> <li>• Hybrid Model</li> </ul> <b>Software Testing</b> <ul style="list-style-type: none"> <li>• Software Quality</li> <li>• Dimensions of Software Quality</li> <li>• Software Quality Assurance</li> <li>• Software Testing Lifecycle</li> <li>• Software Testing Myths</li> </ul>	3
2	<b>Module 2: Testing Throughout the Software Development Lifecycle:</b> <ul style="list-style-type: none"> <li>• Testing in the Context of a Software Development Lifecycle</li> <li>• Test Levels and Test Types</li> <li>• Maintenance Testing</li> </ul> <b>Test Planning and Management</b> <ul style="list-style-type: none"> <li>• Creating a test plan</li> <li>• Test strategy and objectives</li> <li>• Resource and schedule planning</li> <li>• Risk management in testing</li> </ul>	3
3	<b>Module 3: Test Design Techniques</b> <ul style="list-style-type: none"> <li>• Black-box testing techniques (Equivalence Partitioning, Boundary Value Analysis)</li> <li>• White-box testing techniques (Control Flow Testing, Data Flow Testing)</li> <li>• Experience-based techniques (Exploratory Testing, Error Guessing)</li> </ul>	3

4	<b>Module 4: Static Testing</b> <ul style="list-style-type: none"> <li>• Reviews, walkthroughs, and inspections</li> <li>• Static analysis tools</li> <li>• Benefits of static testing</li> </ul>	3
5	<b>Module 5: Test Case</b> <ul style="list-style-type: none"> <li>• Introduction to Test Case</li> <li>• Test Case Templates</li> <li>• Test Case Design Techniques</li> <li>• Functional Test Case</li> <li>• Integration Test Case</li> <li>• System Test Case</li> <li>• Procedure to Write Test Case</li> <li>• Test case Review Process</li> </ul>	3
6	<b>Module 6: Test Case-2</b> <ul style="list-style-type: none"> <li>• Writing Test Cases on real life case study</li> </ul>	3
7	<b>Module 7: Test Execution and Reporting</b> <ul style="list-style-type: none"> <li>• Preparing for test execution</li> <li>• Test case execution</li> <li>• Logging defects</li> <li>• Test reporting and metrics</li> <li>• Traceability Matrix</li> <li>• Test Execution Reports</li> <li>• Sections of Test Plan</li> <li>• Test Metrics</li> <li>• Add and customize TextView, Button, and ImageView in XML</li> <li>• Implement click listeners and other event handlers</li> <li>• Create a simple interactive UI</li> </ul>	3
8	<b>Module 8: Regression Testing</b> <ul style="list-style-type: none"> <li>• Purpose of regression testing</li> <li>• Techniques for regression testing</li> <li>• Automating regression tests</li> <li>• User Acceptance Testing (UAT)</li> <li>• Role of UAT in the SDLC</li> <li>• Planning and conducting UAT</li> <li>• Handling feedback and defect reporting</li> </ul>	3

9	<b>Module 9: Defect Tracking</b> <ul style="list-style-type: none"> <li>● Introduction to Defects</li> <li>● Defect Life Cycle</li> <li>● Status of Defects</li> <li>● Severity of a defect</li> <li>● Priority of a defect</li> <li>● Defect Report/Incident Report</li> <li>● Defect Tracking Tool</li> <li>● Bug Triage</li> </ul>	3
10	<b>Module 10: Test Management Tool Overview</b>	3
11	<b>Module 11: Hands-On Manual Testing Practice-1</b> <ul style="list-style-type: none"> <li>● Implement Text, Button, and Image composables</li> <li>● Customize components using modifiers</li> <li>● Handle click events in Compose</li> </ul>	3
12	<b>Module 12: Hands-On Manual Testing Practice-2</b>	3
13	<b>Module 13: Tool Support for Testing</b> <ul style="list-style-type: none"> <li>● The Meaning and Purpose of Tool Support</li> <li>● Test Management Tool Support for Testing</li> <li>● Benefits and Risks of Test Automation</li> </ul>	3
14	<b>Module 14: ISTQB Foundation Level Tester Certification Exam: Topic Overview</b>	3
15	<b>Module 15: Web Testing Using Automation Test Tool - 1</b>	3
16	<b>Module 15: Web Testing Using Automation Test Tool - 2</b>	3

17	<b>Module 15: Web Testing Using Automation Test Tool - 3</b>	3
18	<b>Module 15: Web Testing Using Automation Test Tool - 4</b>	3
19	<b>Module 15: Web Testing Using Automation Test Tool - 5</b>	3
20	<b>Module 16: Building live project automation framework -1</b>	3
21	<b>Module 16: Building live project automation Framework-2</b>	3
22	<b>Module 17: Overview of API Testing Tool -1</b>	3
23	<b>Module 17: Overview of API Testing Tool-2, Database Testing Basic</b>	3
24	<b>Module 18: Load Testing Tool-1</b>	3
25	<b>Module 18: Load Testing Tool-2</b>	3
26	<b>Module 19: Mobile Testing Overview.</b>	3

27	<b>Module 20: Industry Best Practices and Case Studies</b> <ul style="list-style-type: none"> <li>• SQA best practices</li> <li>• Real-world case studies</li> <li>• Emerging trends in SQA</li> </ul>	3
27	<b>Total class hours</b>	81 hours
28	<b>CV Writing:</b> Crafting an effective CV, structuring for impact, tailoring CVs for job roles, common mistakes, and ATS optimization	3
29	<b>Job Interview:</b> Resume-based and behavioral interviews, common interview questions, STAR method, body language, and mock interview practice	4
30	<b>Industrial Life:</b> Workplace culture, professional ethics, career growth, communication skills, handling work pressure, and networking strategies	3
3	<b>Total mentorship class hours</b>	10