# Module 1:

Sessoin 1:

Testing Basics:

* Testing Introduction
* Define Software Quality
* List the Software Quality Attributes
* Understand Verification and Validation
* Understand what is Software Testing and its Significance
* Explain how Testing improves Software Quality
* Understand History and Evolution of Software Testing
* Describe Software Testing Principles
* Define what is a Software Defect and its significance
* Understand various software development methodologies
* Explain how testing process would differ based on the development methodology

Session 2:

Types of Testing

* Functional & Non-Functional Testing
* Functional & Non-Functional Testing types
* Functional & Non-Functional Testing Tools
* Black box Vs White box Testing
* Manual & Automation Testing
* Fresh development & Maintenance Testing
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Session 3:

Levels of Testing

* + Fresh development & Maintenance Testing
  + Benefits of testing at each level
  + Unit Testing
  + Component Integration Testing
  + System Testing
  + System Integration Testing
  + User Acceptance Testing

# Module 2:

Session 4:

Software Testing Life Cycle

* + Knowledge Transition and Requirements Analysis
  + what is knowledge transition
  + Significance of knowledge transition
  + Requirement analysis process
  + Tester involvement in these phases
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Session 5: Requirement Analysis

* + Types of requirements
  + Analyze the requirement specifications
  + Prioritize the requirements
  + Understand clarification management
  + Analyze requirement defects
  + Requirements change management
  + Requirements change management
  + Concept of requirements coverage
  + Difference between Application Development and Maintenance in this phase

Session 6:

Test Planning

* + Test Strategy
  + Test Plan
  + Test Strategy vs Test
  + Test Plan sections

Session 7:

Test Scenarios and Test Cases Design

* + Test Design Overview
  + Test Scenario Overview
  + Requirement Traceability Matrix for Test Scenarios
  + Test Case Design
  + Test Case Development Process
  + What is a Test Case
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Session 8:

Test Scenario to Test Case

Test Case Development

* + Test Design Techniques
  + Test Case Template
  + Test Case Components

Session 9:

System Test Caseswriting

* + System Integration Test Cases
  + Test Case Review Process
  + Requirement Traceability Matrix(RTM)
  + Test Data Preparation
  + Test Cases Review
  + Test Environment Setup

Session 10:

Test Cases Execution

* + Identify the procedure for Test Data Preparation
  + Planning for TestExecution
  + Test Environment Configuration
  + Test Environment – Test Management Tool Setup
  + Test Environment – Database Setup
  + TestEnvironment– Testuserssetup Session 11:

Test Data Setup

* + Test Case Execution and Logging results
  + Test Case RunStatus
  + Test Execution Reports
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  + Session 12:

Defect Reporting

* + 1.what is defect?
  + 2.What is difference between Error , Defect and Bug?
  + 3.Defect Life Cycle

Session 13:

Deep Dive on Agile Methodology and Scrum Framework

* + SDLC Models
  + Waterfall Model
  + V Model
  + Iteration Model
  + Scrum Framework
  + Roles of Scrum Framework
  + Product Backlog
  + Sprint Backlog
  + Product Owner
  + Scrum Master
  + Scrum Developmen team
  + Sprint Planning meeting
  + Daily Scrum
  + Sprint Review meeting
  + Sprint Retrospective meeting

Session 14: Jira

* + How to use JIRA for Agile Project Management
  + How to use Confluence for Agile Project Management
  + How to use JIRA as Test Management Tool
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  + How to use JIRA as Defect Management Tool
  + How to use JIRA for reports and Metrics

Session 15:

Project Explanation-Agile Project

* + Product Idea
  + Product Vision statement
  + Product Roadmap
  + Product Backlog
  + Project Architecture
  + Project Test Plan
  + Project Domain Knowledge
  + Release1 Planning and execution for all sprints in JIRA Tool
  + Sprint Planning 1…N
  + Sprint 1 end to end execution
  + Sprint 2 end to end execution
  + Sprint 3 end to end execution
  + Sprint 4 end to execution
  + Sprint 4 end to execution
  + Release2 Planning and execution for all sprints -Student practice in JIRA Tool
  + Sprint Planning 1…N
  + Sprint 1 end to end execution
  + Sprint 2 end to end execution
  + Sprint 3 end to end execution
  + Sprint 4 end to execution
  + Release3 Planning and execution for all sprints -Student practice in JIRA Tool
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  + Sprint Planning 1…N
  + Sprint 1 end to end execution
  + Sprint 2 end to end execution
  + Sprint 3 end to end execution
  + Sprint 4 end to execution

Session 16:

Interview Questions

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