



## DETAILED COURSE CURRICULUM

| Section 1 Introduction to Software testing |   |
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| ➔ Video Class 1                            | ▶ Introduction to Software testing  |
| Topics Covered                             | <ul style="list-style-type: none"> <li>❖ Introduction to Software Testing</li> <li>❖ Objectives of Testing</li> <li>❖ Testing Principles</li> </ul> |
| ➔ Video Class 2                            | ▶ Required skill set for Manual Software Tester   |
| Topics Covered                             | <ul style="list-style-type: none"> <li>❖ Skill Set</li> </ul>   |

| Section 2 Types Of Testing |  |
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| ➔ Video Class 3            | ▶ Introduction to Software testing   |
| Topics Covered             | <ul style="list-style-type: none"> <li>• What is manual testing</li> <li>• What is automation testing</li> <li>• Understanding Difference between Manual and Automation</li> </ul> |
| ➔ Video Class 4            | ▶ Why to Test Application  |
| Topics Covered             | <ul style="list-style-type: none"> <li>• Importance of client requirements</li> <li>• Purpose of testing</li> </ul>  |

### Section 3 Roles and Responsibilities of Testers

#### ➔ Video Class 5

#### ▶ Roles and responsibilities of Tester

#### Topics Covered

- Roles and responsibilities of test engineer

### Section 4 Introduction to Software Development Life Cycle SDLC

#### ➔ Video Class 6

#### ▶ Types Of Software's

#### Topics Covered

- Introduction to Software's
- Types of software
- System software
- Application software
- Product based vs project based

#### ➔ Video Class 7

#### ▶ SDLC-Part 1

#### Topics Covered

- Introduction to software testing life cycle
- Introduction to all phases of life cycle

#### ➔ Video Class 8

#### ▶ SDLC-Part 2

#### Topics Covered

- Walkthrough of documents and detailed information of SDLC
- FRS
- BRS

#### ➔ Video Class 9

#### ▶ SDLC-Models

#### Topics Covered

- What is SDLC?
- Introduction to SDLC

#### ➔ Video Class 10

#### ▶ V model Explanation

#### Topics Covered

- V model detailed explanation
- Validation and verification
- Verification techniques (peer review, walk through, inspections)

### Section 5 Testing Techniques

#### ➔ Video Class 11

#### ▶ SOFTWARE testing techniques (exhaustive testing and optimal testing)



#### Topics Covered



- Exhaustive Testing
- Optimal Testing
- White Box Testing (WBT)
- BLACK Box Testing (BBT)


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| <b>Section 6</b>        | <b>Testing Levels In SDLC and Function Testing</b>  |
| ➔ <b>Video Class 12</b> | ▶ <b>Testing phases in SDLC and Unit and Integration testing</b>  |
| Topics Covered          | <ul style="list-style-type: none"> <li>• Documents reviews</li> <li>• Unit testing</li> <li>• Big Bang</li> <li>• Top Down, Bottom up, Stubs, Drivers</li> <li>• Integration testing</li> </ul> |
| ➔ <b>Video Class 13</b> | ▶ <b>Functional Testing</b>   |
| Topics Covered          | <ul style="list-style-type: none"> <li>• Introduction to Functional Testing</li> </ul>  |






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| <b>Section 7</b>        | <b>Black Box Testing Techniques</b>  |
| ➔ <b>Video Class 14</b> | ▶ <b>BVA (Boundary value Analysis) ,ECP (equivalence class partitioning) And Deriving Test data</b>  |
| Topics Covered          | <ul style="list-style-type: none"> <li>• Understanding BVA</li> <li>• Understanding ECP</li> <li>• Practical explanation on BVA AND ECP</li> </ul> |

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| <b>Section 8</b>        | <b>NON - FUNCTIONAL TESTING</b>   |
| ➔ <b>Video Class 15</b> | ▶ <b>NON - FUNCTIONAL TESTING</b>   |
| Topics Covered          | <ul style="list-style-type: none"> <li>• GUI Testing</li> <li>• Usability testing</li> <li>• Performance testing<br/>load, stress, data volume testing</li> <li>• Security testing<br/>Authorization, Access control, cookies, session id</li> <li>• Recovery testing</li> <li>• Compatibility testing</li> <li>• Configuration testing (h/w compatibility)</li> <li>• Installation testing</li> <li>• sanitation testing</li> <li>• Competitive</li> </ul> |

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| <b>Section 9</b>        |   | <b>Smoke, Ad-hoc and Localization Testing</b>  |  |
| <b>➔ Video Class 16</b> |  | <b>Smoke and Ad-hoc</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>❖ What is Smoke and sanity testing</li> <li>❖ Ad-hoc testing</li> </ul> |  |
| <b>➔ Video Class 17</b> |  | <b>Localization Testing</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>❖ Localization Testing</li> </ul>                                       |  |

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| <b>Section 10</b>       |   | <b>RE-TESTING AND REGRESSION TESTING</b>  |  |
| <b>➔ Video Class 18</b> |  | <b>RE-TESTING AND REGRESSION TESTING</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>❖ What Is Retesting</li> <li>❖ What Is Regression Testing</li> <li>❖ Importance of Retesting and Regression Testing</li> </ul> |  |
| <b>➔ Video Class 19</b> |  | <b>Exploratory testing</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>❖ Exploratory testing</li> </ul>   |  |

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| <b>Section 11</b>       |   | <b>SOFTWARE TESTING LIFE CYCLE</b>   |  |
| <b>➔ Video Class 20</b> |  | <b>Test Initiation and Test Planning</b>   |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>❖ Introduction to Software Testing Life Cycle</li> <li>❖ Test Strategy document and Test Plan document walkthrough</li> </ul> |  |

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| <b>Section 12</b>       |   | <b>Writing Test-cases - Very important section</b>   |  |
| <b>➔ Video Class 21</b> |  | <b>What Is test case And test cases document</b>   |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>• What is Test cases</li> <li>• Detailed explanation Of testcase</li> <li>• Test case templet, excel sheet</li> </ul> |  |
| <b>➔ Video Class 22</b> |  | <b>Writing Test Cases For Gmail</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>• Sample Test Case Writing on Gmail</li> </ul>  |  |
| <b>➔ Video Class 23</b> |  | <b>Writing Testcases For User Registration Form</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>• Project: Writing Testcases on User registration form</li> </ul>   |  |
| <b>➔ Video Class 24</b> |  | <b>Executing testcase</b>  |  |
| Topics Covered          |   | <ul style="list-style-type: none"> <li>• Executing of testcases for user registration form</li> </ul>  |  |
| <b>➔ Video Class 25</b> |  | <b>Advance Testcases Writing technique</b>   |  |

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| Topics Covered   | <ul style="list-style-type: none"> <li>• Advance testcase writing technique</li> <li>• Writing testcases using separate test data document</li> </ul> |
| ➔ Video Class 26 | ▶ <b>Test scenario</b>  |
| Topics Covered   | <ul style="list-style-type: none"> <li>• Introducing to Test Scenario</li> <li>• Test scenario Templet</li> </ul>                                     |

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| <b>Section 13</b> | <b>Project 3 working On Banking FRS (Test cases Writing) Very Important</b>  |
| ➔ Video Class 27  | ▶ <b>Admin Login E-Bank, Testcases and New Branch Creation</b>   |
| Topics Covered    | <ul style="list-style-type: none"> <li>• Writing real world testcases using FRS document</li> <li>• For Ebanking: Admin and New branch Creation</li> </ul> |
| ➔ Video Class 28  | ▶ <b>Test Cases With Pre Condition</b>   |
| Topics Covered    | <ul style="list-style-type: none"> <li>❖ Advance test cases writing</li> <li>❖ Pre- condition testcases explained</li> </ul>                               |

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| <b>Section 14</b> | <b>Required traceability matric</b>   |
| ➔ Video Class 29  | ▶ <b>Requirement Traceability Matrix (RTM) introduction</b>   |
| Topics Covered    | <ul style="list-style-type: none"> <li>❖ Introduction to Requirement Traceability Matrix</li> </ul> |
| ➔ Video Class 30  | ▶ <b>Writing Requirement Traceability Matrix</b>  |
| Topics Covered    | <ul style="list-style-type: none"> <li>❖ Writing Requirement Traceability Matrix</li> </ul>         |

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| <b>Section 15</b> | <b>Bug Life Cycle</b>   |
| ➔ Video Class 31  | ▶ <b>Bug/ Defect Life Cycle and Bug Reporting</b>   |
| Topics Covered    | <ul style="list-style-type: none"> <li>• What is Bug / Defect</li> <li>• Bug Life Cycle</li> <li>• Bug Life Cycle phases explained</li> <li>• Writing effective Bug report</li> </ul> |
| ➔ Video Class 32  | ▶ <b>Priority and Severity</b>  |
| Topics Covered    | <ul style="list-style-type: none"> <li>❖ Explained Priority and Severity with example</li> </ul>  |

## Section 16 AGILE

### ➔ Video Class 33

#### ▶ Agile principles

#### Topics Covered

- What is Agile
- Agile manifesto
- Principle of Agile
- Advantages and Disadvantages of Agile

### ➔ Video Class 34

#### ▶ Scrum part 1

#### Topics Covered

- Introduction to Scrum
- Epic
- Story
- Scrum Team
- Product owner
- Scrum Master

### ➔ Video Class 35

#### ▶ Scrum part 2

#### Topics Covered

- ❖ Scrum Life Cycle

## Section 17 Jira For Testers

### ➔ Video Class 36

#### ▶ Jira For Testers part 1 (Introduction )

#### Topics Covered

- ❖ Introduction JIRA
- ❖ Objectives of Jira

### ➔ Video Class 37

#### ▶ Jira Part 2

#### Topics Covered

- ❖ Creating Project
- ❖ Adding Epics and User stories
- ❖ Sprint
- ❖ Defect reporting

## Section 18 Beginners Interview Questions

### ➔ Video Class 38

#### ▶ Interview questions and Answers

#### Topics Covered

- ❖ Important Interview Questions