

Deccansoft Software Services

(A Microsoft Learning Partner)

MANUAL TESTING COURSE SYLLABUS

Module 1: Software Testing Introduction

In this module you learn about

- ❖ What is testing?
- ❖ Importance of testing
- ❖ Roles and Responsibilities
- ❖ Principles of software testing
- ❖ What is Quality?
- ❖ How much testing is enough?
- ❖ Differences between Manual and Automation Testing.

Module 2: Software Development Life Cycle

In this module you learn about development procedure and importance of each model.

1. SDLC Phases

- ❖ Requirements Phase.
- ❖ Analysis Phase.
- ❖ Design phase.
- ❖ Coding Phase.
- ❖ Testing phase.
- ❖ Delivery and Maintenance Phase.

2. SDLC Models

- ❖ Waterfall Model.
- ❖ V Model
- ❖ Agile Model.
- ❖ Prototype Model.
- ❖ Spiral Model.

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Module 3: Software Testing Methodologies

In this module you learn about deferent types of software testing .

- ❖ White Box Testing.
- ❖ Black Box Testing.
- ❖ Grey Box Testing.

Module 4: Test Case Design Techniques

In this module you learn about deferent types of testing Techniques.

Static Techniques:

- ❖ Informal Reviews
- ❖ Walkthroughs
- ❖ Technical Reviews
- ❖ Inspection

Dynamic Techniques:**Structural Techniques**

- ❖ Statement Coverage Testing
- ❖ Branch Coverage Testing
- ❖ Path Coverage Testing
- ❖ Conditional Coverage Testing
- ❖ Loop Coverage Testing

Black Box Techniques

- ❖ Boundary Value Analysis
- ❖ Equivalence Class Partition
- ❖ State Transition Technique
- ❖ Cause Effective Graph
- ❖ Decision Table
- ❖ Use Case Testing

Experienced Based Techniques:

- ❖ Error guessing
- ❖ Exploratory testing

Module 5: Levels of Testing

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In this module you learn about levels of testing when to use each type of testing

1. Functional Testing

- ❖ Unit Testing
- ❖ Integration Testing
- ❖ System Testing
- ❖ User Acceptance Testing.
- ❖ Sanity/Smoke Testing.
- ❖ Regression Test.
- ❖ Retest.

2. Non Functional Testing

- ❖ Performance Testing.
- ❖ Memory Test
- ❖ Scalability Testing.
- ❖ Compatibility Testing.
- ❖ Security Testing.
- ❖ Cookies Testing.
- ❖ Session Testing.
- ❖ Recovery Testing.
- ❖ Installation Testing.
- ❖ Adhoc Testing.
- ❖ Risk Based Testing.
- ❖ I18N Testing.
- ❖ L10N Testing.
- ❖ Compliance Testing.

Module 6: Software Testing Life Cycle

In this module learn about Test Life Cycle, importance of Test Plan.

1. Requirements Analysis/Design

- ❖ Understand the requirements
- ❖ Prepare Traceability Matrix

2. Test Planning

- ❖ Object.
- ❖ Scope of Testing.

- ❖ Schedule.
- ❖ Approach.
- ❖ Roles & Responsibilities.
- ❖ Assumptions.
- ❖ Risks & Mitigations.
- ❖ Entry & Exit Criteria.
- ❖ Test Automation.
- ❖ Deliverables.

3. Test Cases Design

- ❖ Write Test cases
- ❖ Review Test cases
- ❖ Test Cases Template
- ❖ Types of Test Cases
- ❖ Difference between Test Scenarios and Test Cases.

4. Test Environment setup

- ❖ Understand the SRS
- ❖ Hardware and software requirements
- ❖ Test Data

5. Test Execution

- ❖ Execute test cases
- ❖ Defect Tracking and Reporting
 - Types of Bugs.
 - Identifying the Bugs.
 - Bug/Defect Life Cycle.
 - Reporting the Bugs.
 - Severity and priority

6. Test Closure

- ❖ Criteria for test closure
- ❖ Test summary report

7. Test Metrics

- ❖ What is Test Measurements?
- ❖ Why Test Metrics?
- ❖ Metric Life Cycle.
- ❖ Types of Manual Test Metrics.

Module 7: QA & QC & Testing

In this module you learn about QA & QC and How to log bugs in Project management tool, how to give severity, priority to bugs.

- ❖ What is Quality Assurance?
- ❖ What is Quality Control?
- ❖ Differences of QA & QC & Testing

Test Management with TFS Tool (Learn & Implement)

Defect Tracking Tools (Learn & Implement)

- ❖ TFS

