

ISTQB-Software Testing Course (20 Hr)

Chapter 1- Basics of Software testing

General terms of testing and explains the following in detail.

1. Why is Testing Necessary?
2. What is Testing
3. General Testing Principles
4. Fundamental Test Processes
5. Psychology of Testing

Chapter 2- Life Cycle Testing

Narrates how testing runs parallel with development process in SDLC. The main topics are as follows:

- Software Development Models
- Distinction: testing - checking, verification - validation
- General "V Model", identification of phase results
- Benefits of early tests; iterative tests
- Testing within the life cycle models

Test Levels

- Component Testing (unit testing)
- Integration Testing
- System Testing
- Acceptance Testing

Test Types: the Targets of Testing

- Functional Testing
- Non-functional Testing
- Structural Testing
- Testing changes - Confirmation and Regression Testing
- Maintenance Tests
- Testing once changes have been made

Chapter 3- Dynamic Test

The main objective of this chapter is how to write effective test cases looking into requirements.

Objectives are:

- Identifying test conditions and designing test cases condition, test case, and test procedure.

Categories of test design techniques

specification-based (black-box), structure-based (white-box)

Specification-based or black-box techniques

equivalence partitioning, boundary value analysis

decision tables, state transition diagrams

Structure-based or white-box techniques

Experience-based techniques

Choosing test techniques

Chapter 4- Static Test

Static testing is a verification process. Following are narrated in this chapter

Reviews and the test process

Review Process

Formal review

Informal review

Technical review

Walkthrough

Inspection

Static analysis by tools

Chapter 5- Test Management

Objectives of Test Management are as follows:

Test organization

Test planning and estimation

Test progress monitoring and control

Configuration management

Risk and testing

Incident Management

Chapter 6- Testing Tools

Overview of this chapter are as follows:

Types of test tools

Effective use of tools: potential benefit and risks

Introducing a tool into an organization.

Mock Papers