



## ISTQB

### Basics of Software testing

General terms of testing and explains the following in detail.

- ✓ Why is Testing Necessary?
- ✓ What is Testing
- ✓ General Testing Principles
- ✓ Fundamental Test Processes
- ✓ Psychology of Testing

### 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:

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



## 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

## 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

## Test Management



# KKAR Technologies

...Career Through opportunities

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

**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