

Manual Testing Contents

Duration: 25-30 Days

Introduction to testing

- Software and need of software
- Types of companies In IT Market
- Different domains in IT Market
- What is Testing & Need of Testing?
- What is Quality & Costs of Quality?
- What is QC & QA?
- Differentiate between QA & QC
- Brief about Verification & Validation

Categorization of Software Testing

Levels or Phases of Testing

Software Development life cycle – SDLC

Models of SDLC

- Water Fall Model
- V-Model
- Prototype
- Rapid Application Development - RAD
- Agile Methodology

Software Testing Life Cycle – STLC

Test case authoring techniques

- Boundary Value Analysis
- Equivalence class partitioning
- Error Guessing

Standard format for test case designing

How to author Test cases for Real world requirements

How to execute the test cases

How log or record test results

Testing Terminologies

- Project Plan
- Test Strategy
- Test Plan
- Test Cycle
- Test Schedule
- Test Execution
- Test Scenario
- Test Case
- Test Set
- Test Environment
- Build
- Gold Build
- Scrap Build
- Defect
- Bug
- Error
- Exception
- Defect Density
- Verified Defect
- Test Bed
- Test Harness
- Stubs
- Drivers

Bug Life Cycle

Bug Tracking Tools

Test Management Tools

Definitions of Severity & Priority

Levels of Severity & Priority

Testing Matrices

- Test Case Metrics
- Defect Metrics

Traceability & Types of Traceability Metrics

- Requirement TM
- Forward TM
- Reverse or Backward TM

Principles of Software Testing

Review, Walkthroughs & Types of Reviews

- Self Review
- Peer Review
- Managerial Review
- Client Review

Types of Testing

Functional Testing Types

Build verification test (BVT)

- Smoke
- Sanity

Regression Testing

Re-Testing

Monkey/Gorilla Testing

Ad-Hoc Testing

Exploratory Testing

Language Testing Types

- Localization (L10N)
- Internationalization (I18N)

Non-Functional Testing

Performance Testing

- Load Testing
- Stress Testing

Security Testing

Recovery Testing

Compatibility Testing

Volume Testing

Installation Testing

Portability Testing

Test Efficiency & Test Effectiveness

Real Time Reasons for defect rejections

Automation Testing Contents

What is Automation & Need for Automation

Duration: 20-30 Days

How start the automation of Application

Factors to consider for Automation POC

Tools Used for Automation

Automation Tool Working Mechanism

What are Objects & How to create the Objects

Automation Life Cycle

What are Variables & Parameters

How to create Variables & How to use them in scripting

What are Test Script and How to create the test scripts

Methods of Automation

- Record & Playback
- Descriptive Programming

What is Framework

Types of Framework

- Data-Driven
- Keyword Driven
- Hybrid

How to build the simple frameworks

Automation Test Plan

How to write simple functions (Local)

How to write complex functions (Global)

How to call the functions in test scripts

General Errors & how debug the scripts

How to analyze the test results after execution