

Manual Testing Course Content

Chapter 1 : Introduction

- Software Testing introduction
- Verification and Validation
- Application types
 - Console Desktop
 - Windows application or Desktop Application – Standalone and Client/Server applications
 - Web application – 3- tier or N-tier application
 - Web Portals
 - Mobile Applications.
- Difference between desktop application and web applications
- Web application vs Web Portals
- Mobile application testing and its introduction

Chapter 2: SDLC Models

- Need of SDLC and its Phases introduction
- Waterfall Model
- Prototype Model
- Spiral Model
- V- Model
- Analysis of traditional sdlc model and current model
- Incremental Model – Agile and Scrum Framework
- Agile Manifesto
- Importance of Agile and its different framework
- Scrum roles and responsibilities
- Scrum user story splitting and estimation techniques
- Pros and cons of Scrum framework

Chapter 3 : STLC– Software Testing Life Cycle

- Difference between Use cases, Test cases and Scenarios
- Difference between Test plan and Strategy
- How to prepare test report?

- Concept about Error, bug, defect and failure.
- Preparing Bug report
- Bug life Cycle
- Entry and Exit Criteria
- Priority and severity
- Introduction to test management tool
- Exercises with test management tools like bug tracker

Chapter 4 : Principles of testing

- Seven Principles of testing - Importance
- Real time examples for below principles
 - Exhaustive testing is impossible
 - Defect Clustering
 - Pesticide Paradox
 - None of the application is bug free
 - Testing is context dependent of the application
 - Intension of application is to identify flaws in an application
 - Importance of avoiding late testing

Chapter 5: Types of testing

- Static and Dynamic testing
- Functional and Non Functional testing

Chapter 5.1 : Non functional testing

- Black Box testing and its types –
 - BVA (Boundary Value Analysis)
 - Equivalence partitioning,
 - Decision tables
 - Graph based methods – State transition diagram
 - All Pairs testing
- White box testing and its nature
- Statement coverage
- Path coverage
- Branch coverage
- How to calculate the complexity of the program
- SIT - System Integration testing
- UAT – User Acceptance testing
- Adhoc testing
- Regression testing
- Progression testing

- Alpha and beta testing
- Positive and Negative testing
- Integration – Big Bang approach and Incremental approach
- Top Down and Bottom up integration approach
- Importance of Integration testing and its test case preparation

Chapter 5.2 : Non functional testing

- Importance of Non-functional testing
- Types of Non-Functional testing
 - Performance testing (Stress and Load)
 - Volume
 - Security
 - Compatibility
 - Configuration testing
 - Comparison
 - Scalability
- Requirement traceability matrix – Requirement mapping
- Test Coverage or Requirement Mapping

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