Functional/Manual Testing Course Content

By Karthik Telajala

- 1. IT Organization Architecture
- 2. Software Introduction
 - a. Standalone Applications
 - b. Client-Server Applications
 - c. Web Applications
 - d. Mobile Application
- 3. Qualities of a Good Tester
- 4. What is Software Testing
- 5. Software Testing (Quality) Standards
- 6. Importance of Testing
- 7. Principles of Testing
- 8. Types of Testing
- 9. Methods of Testing
- 10. Levels of Testing
- 11. Other Types of Testing (around 30 other types of testing used in real time)
- 12. Software Development Life Cycle (SDLC)
- 13. Different SDLC Models
 - a. Waterfall (Sequential) Model
 - b. V Model
 - c. Incremental Model
 - d. Rapid Application Development Model (RAD)
 - e. Iterative Model
 - f. Spiral Model
 - g. Agile Model
- 14. Software Testing Life Cycle (STLC)
- 15. Differences between SDLC & STLC
- 16. Agile Testing Methodologies
 - a. Scrum (with real time Sprint Board)
 - b. eXtreme Programming
- 17. Software Verification Techniques
- 18. Software Validation Techniques
- 19. Software Testing Versioning
- 20. Various documents need to be referred
 - a. BRD
 - b. Requirements Traceability Matrix (RTM)
 - c. Test Plan
 - d. HLD & LLD
 - e. BAA Document
 - f. TSD
 - g. Test Cases Document
 - h. Sign off Document etc...
- 21. Test Strategy
- 22. Test Plan Document & Contents
- 23. Differences b/w Test Strategy & Test Plan

- 24. Test Monitoring & Test Control
- 25. Brach Coverage & Statement Coverage
- 26. Test Summary Report
- 27. Test Case Design Techniques
- 28. How to Write Test Cases
- 29. Test Execution
- 30. Test Coverage
- 31. Defect Logging
- 32. Defect Life Cycle
- 33. Quality Center (HP ALM (QC))
 - a. Introduction to ALM
 - b. Modules and Workflow of ALM
 - c. Requirements creation
 - d. Test Case Designing
 - e. Mapping Test Cases to Requirements
 - f. Test Case Execution
 - g. Logging Defects
 - h. Generating Reports
 - i. Exporting Test Cases from Excel to QC
 - j. Importing Test Case\Defects from QC to Excel
- 34. TFS Tool (Alternate Tool)
- 35. Database Concepts (T-SQL, MS SQL Server)
 - a. DBMS
 - b. RDBMS
 - c. SQL
 - d. Data Types
 - e. Basic SQL Queries
 - i. DML Commands
 - ii. DDL Commands
 - iii. DQL Command
 - iv. DCL Commands
 - v. TCL Commands
 - f. Constraints
 - g. Advanced SQL Queries
 - i. Joins
 - ii. Unions
 - iii. Indexes
 - iv. Sub Queries & Correlated Queries
 - v. Clauses
 - vi. Functions
 - vii. Ranking Functions
 - viii. CTE
 - ix. Stored Procedures
 - x. Triggers
- 36. Basic Domain Knowledge
- 37. Interview Questions
- 38. Mock Interviews