

# TESTING TOOLS

with **Real Time Project**

## Manual Testing Syllabus

### Module 1 : Software Engineer Foundation Program

- Introduction to Software Testing
- SDLC phases and Deliverables
- SDLC Models
  - Waterfall model
  - Spiral model
  - Prototype model
  - Rapid application development model
  - Iterative and Incremental development model
  - Agile model
- Software Engineering
- Software Process and benefits
- SEI CMMI Levels
- Software Configuration Management (VSS/TFS)
  - Purpose of SCM
  - Version Control
  - Directory Structure
  - Check-Out files
  - Check-In files
- SQA and SQC
- Verification and Validation
- Testing Roles and Responsibilities
  - Software Test Engineer
  - Senior Software Test Engineer
  - Test Lead
  - Test Manager
- Project Management plan
- Requirements Specification
  - Business requirement specification
  - Software requirement specification
  - Functional requirement specification
- Requirement Change Management
- Testing Life Cycle
- Test Plan Preparation

### Module 2 : Test Engineer Responsibilities

- Test Scenarios
  - Test Scenario Template
  - Test Scenarios Identification
- LAB Checklist
- Working Folder Structure
- Test Cases
  - Good Test Case design
  - Test Case Design Techniques
  - Equivalence Class Partitioning
  - Boundary Value Analysis
  - Whitebox Testing Techniques
- Guidelines for web testing
  - Functionality, Usability, User Interface
  - Compatibility, Security, Performance
  - Server Log Files
- Project / Product and Types
- MVC Architectures
- Java / .Net Environment for Web Applications
- Architecture of Project
- Builds from Development Testing
- Test Cases Execution
- Defect Management - Bugzilla / Track+
  - Defects Reporting
  - Defects Tracking and Retesting
  - Defects Closing
- Severity and Priority
- Status Reports
- Defects in Real Time Applications
- Defect Life Cycle
- Retesting and Regression Testing
- Project Builds Workflow
- Testing Strategy
- Testing Process
- Database Testing using TOAD



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