

TESTING TOOLS – QA COURSE CONTENT

SDLC

- What are the different phases of SDLC?
- How does the process of Software Development Start?
- Project Initiation
- Requirement Gathering and Analysis
- What is Requirement document and what it contains?
- What is use case document and what it contains?
- What is Basic path and Alternate Path?
- Role of Business Analyst
- Example for explaining each phase
- Role of technical specification team
- What is Technical specification document?
- What is System Design?
- Role of Design team
- What is design document?
- Role of architecture team
- System development
- Role of development team
- Deliverable of Development phase
- System testing
- Role of testers and types of testing
- User acceptance testing
- System deployment
- System maintenance
- Events in the maintenance phase like bug fixes

STLC

- How are the phases of STLC carried out?
- What is testing?

- Role of testers
- Why do we need to test?
- Activities involved in the testing phase
- What is test plan and test case document?
- Steps of test case execution
- What does test case document contain?
- How to write test case document?
- What is required to test any application?

Virtual User Generator

- Recording script for web
- Recording levels
- URL/HTML
- Enhancing script
- Replay & Play back
- Script functions`
- Protocol Specific functions
- General LR functions
- Transactions
- Purpose of Transactions
- Transactions after Recording
- Actions
- Multiple Actions
- Debugging
- Check Points
- Parameterization
- Playback problems
- Correlation
- Auto & Automatic
- Manual
- Run Time settings
- Logs

TEST CASES

- What is test case?
- What does test case document contain?
- How to write test case document?
- Different test case techniques

TEST PLAN

- What is Test Plan?
- How to write test plan document?
- What does the test plan document contain?
- Who writes and approves the test plan document?
- How manage the test case documents?
- What is the pass/fail criterion?
- **TYPES OF TESTING**
- Different Phases of testing
- What is unit testing?
- What is Minimum acceptance testing?
- What is integration, system and system integration testing?
- What is User acceptance testing?
- What is Regression Testing?

DEFECT ANALYSIS

- What is a defect?
- Various Defect tracking tools
- How to use the defect tracking tools?
- How to enter the details of defect in the defect tracking tool?
- How to identify a defect?
- What is severity and priority?

TRACEABILITY MATRIX

- What is Traceability Matrix(TM)?
- Who Prepares the TM document?
- What is the reference for writing TM?
- What is the use of TM?
- What is present in the TM document?
- Sample TM
- Tools used for developing TM

Various Teams and their Roles

- Configuration Management Team
- Role of configuration management team
- What is Deployment?
- Deployment Team
- Role of Deployment team
- Version Control
- Various version tools and its usage
- Difference between QC and QA
- What is automation testing?
- Why, what and when to automate?
- Various tools used for automation testing

MANAGEMENT TOOL

QUALITY CENTER

Introduction to Quality Center

- What is Quality Center ?
- Why to use Quality Center
- Version of Quality Center
- Overview of quality Center user interface
- Various tabs in Quality center
- Requirement Module

- Requirement Module Overview
- Creating Requirement tree
- Creating Parent & Child requirements
- Understanding the Description tab
- Understanding the History tab
- Uploading attachments to requirement
- A glance at various columns in requirement
- Types of views in requirement module
- Requirement grid view
- Requirement coverage view
- Test Plan Module
- Creating folder structure
- Create test cases
- Requirement coverage
- Test Lab Module
- Overview of Test Lab
- Detail of various tabs
- Creating folders
- Creating Test sets
- Adding test cases
- Different columns in Execution Grid
- Execution Flow tab
- Scheduling Test runs
- Test Set Properties tab
- Linked Defects tab
- Running Tests manually
- Running Tests automatically
- Viewing Test results
- Quality Center Defects
- Overview of Defects
- Creating defects after test execution
- Adding defects in defect module
- Creating defects during test execution

- Linking Defects
- How to close a defect
- Closing defects after retest
- Mailing the defects
- Quality Center reports & graphs
- Why Reports & Graphs?
- How to create reports & graphs for Analysis?