

Course content for QA Training in USA:

Module 1 : Introduction

- Testing concepts
- QA tester
- Roles
- Responsibilities
- Characteristics
- System design
- System specification
- Importance of software testing

Module 2 : SDLC Models

- SDLC
- STLC
- Phases of SDLC
 - Planning
 - Functional refining of requirements
 - Design
 - Implementation
 - Component test
 - Integration and system test
 - Alpha test
 - Beta test
 - Release
 - Production
 - Ongoing review
 - Retirement
- Fish model
- Waterfall model
- V model
- Prototype model

Module 3 : Testing Strategy

- Creating test plan
- Test scenarios
- Test scripts
- Test summary report
- Test data
- Test execution

Module 4 : Client-Server Architecture

- One tier
- Two tier
- Three tier
- N-tier

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Module 5 : Testing Methodology

- BVA – boundary value analysis
- ECP – equivalence class portioning

Module 6 : Levels of Testing

- Unit level testing
- Module testing
- Integration level testing
- System testing
- UAT

Module 7 : Testing Methods

- Conventional testing
- Un-conventional testing
- White-box testing
- Grey-box testing
- Black-box testing

Module 8 : Kinds of Testing

- Sanity testing
- Smoke testing
- Installation testing
- Exploration testing
- Monkey testing
- UAT testing
 - Alpha
 - Beta
- Static testing
- Dynamic testing
- Regression testing
- Scalability testing
- Security testing
- Compatibility testing
- Forced error testing
- Usability testing
- Reliability testing
- Accessibility testing
- Ad-hoc testing
- End-to-end testing
- Heuristic testing

Module 9 : Defects and Bug Reporting Process

- Difference between defect, bug, and error
- Life cycle of defect
 - Severity
 - Priority
- Defect resolutions
- Defect management
- Defect tracking
- Defect conflict cycle

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- Defect logging details
- Impact analysis

Module 10 : Structure Query Language (SQL)

- Database
- RDBMS – relational database management system
- Normalizations
- SQL introduction
- DDL — Data Definition Language
 - Create table
 - Alter table
 - Drop table
- DCL — Data Control Language
- DML — Data Manipulation Language
- Primary and foreign keys
- Constraints
- Sorting
- LIKE conditions
- Operators and Operand
- SQL IN clause
- SQL BETWEEN clause
- SQL VIEWS

Module 11 : Basic Concept of Programming

- Operators
- Variables
- Comparison
- Loops
- If...Else
- Try...Catch

Module 12 : Quality Standards

- CMM levels
- Six sigma

Module 13 : QC – Quality Control

- Introduction to QC
- Modules
 - Requirements
 - Test lab
 - Test plan
 - Defects
 - Planning and running tests
- QC defects
- QC reports and graphs

Module 14 : QTP – Quick Test Professional

- Introduction to QTP
- Installation
- Recording scripts
- Local and global data tables

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- Starting Quick Test
- Quick Test window
- Quick Test window layout
- Using Quick Test commands
- Working with test objects and object repositories
- QTP IDE and different record modes
- Object identification
- Output values
- Data-driven testing
- Regular expressions
- Recovery scenario
- Parameterization
- Descriptive programming
- Transaction points
- AOM – automation object model
 - Why automating?
- QC connection
- VB scripting

Module 15 : Load and Performance Testing

- What is load testing
- Types of load testing
- what is performance testing
- Types of performance testing
- Load runner
 - Introduction
 - Architecture
 - Installation
 - Scripts
 - Components
 - Why is it required?
- Use of national robot

Module 16 : Database Validations and Schema

- Introduction to database validation
- Techniques
- Database schema introduction
- Tricky techniques in testing

Module 17 : Snagit Tool

- What is Snagit?
- Installation
- Use

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