

QA training

Session 1: Introduction to QA

- Introduction to Quality Assurance
- Role of a QA
- Can it be outsourced?
- Essential Skills Required?
- What is Client Server Architecture?
- What is 3-tier Architecture?
- What is N-tier Architecture?
- What is an Intranet / Internet?
- Stages of Software Development Life Cycle
- Stages of Test Development Life Cycle.
- What is Unit Testing?
- What is Integration Testing?
- What is Black Box Testing?
- What is Functional Testing?
- What is System Testing?
- What is White Box Testing?
- What is Regression Testing?
- What is Automation Testing?
- What is Positive Testing?
- What is Negative Testing?
- What is Performance Testing?
- What is Load Testing?
- What is Stress Testing?
- What is Disaster Recovery Testing?

Session 2: Manual Testing and Testing Strategy

- What is a Use Case?
- What is a Business Requirement Document?
- What is a Test Case?
- How to write Test Cases?
- **1st Lab Exercise on writing Manual Test Cases.**
- How to Execute Testing?
- What are Defects / Bugs?
- What is the Defect Life Cycle?
- What are Priorities?
- What is Severity?
- What are different types of Status?
- How to take snapshot?
- **2nd Lab Exercise on writing and assigning Defects in Excel.**
- What is Agile Testing?
- What is Android Testing?
- What is iOS Testing / iPhone Testing?
- What is a Test Plan?
- What are the contents of a Test Plan?
- **Sample Test Plan / Test Strategy – Real Project**

Session 3: Quality Center 9.0 / ALM / Test Director

- What is Quality Center / Test Director?
- What is the difference between Test Director and Quality Center?
- What are the versions of Test Director/ Quality Center
- What is Site Admin in Quality Center?
- What is a Domain?
- How to create a Domain?
- How to create a Project in Quality Center?
- How to create users in Site Admin Module?
- How to assign users to the project in Site Admin Module?
- **3rd Lab Exercise on Quality Center, Site Admin Module.**
- How to define requirements in Quality Center?
- How to define child requirements in Quality Center?
- **4th Lab Exercise on writing Requirement in Quality Center.**
- What is Test Plan in Quality Center?
- How to write Test Cases in Quality Center?
- How to assign Test Cases to Requirements?
- **5th Lab Exercise on writing Test Cases in Quality Center.**
- What is Test Lab?
- How to execute Test Cases in Quality Center?
- **6th Lab Exercise on executing Test Cases in Quality Center.**
- How to Create Defects in Quality Center?
- How to assign Priority in Quality Center?
- How to take a snapshot in Quality Center?
- How to assign Test Cases to Defects
- **7th Lab Exercise on Creating and Assigning Defects**
- How Quality Center is equivalent to JIRA, BugZilla, TeamTrack, Rational Clearquest.

Session 4: Database Testing, Backend Testing, SQL and LoadRunner Overview

- What is a Database?
- What is a Table?
- What is Primary Key?
- What is Foreign Key?
- What is a Select Statement?
- What are Insert, Update, and Delete Statements?
- What are SQL, TSQL, and PL/SQL?
- What is Oracle?
- What are the versions of Oracle?
- What is SQL Server?
- What are the versions of SQL Server?
- What is Database testing?
- **8th Lab Exercise on Database Testing**
- What is LoadRunner?
- What are the versions of LoadRunner?
- What is performance testing?
- What is Virtual User Generator?
- What is LoadRunner Controller?

- What is LoadGenerator?
- How to design a scenario?
- What is Transaction Response Time?
- What is Ramp-up?
- What is Ramp-down?
- What is Duration?
- What is Elapse Time?
- How to Execute a Scenario?
- **9th Lab Exercise on LoadRunner**
- What is LoadRunner Analysis?
- How to create a Professional Report in LoadRunner Analysis?
- How to create a professional LoadRunner report?
- **10th Lab Exercise on LoadRunner**

Session 5: Automation Testing, QuickTest Pro (QTP), HP Functional Testing

- What is WinRunner?
- What is QTP?
- What is the difference between QTP and Winrunner?
- What are the versions of QTP?
- How to record a script in QTP?
- How to replay script in QTP?
- **11th Lab Exercise on recording and replaying a script in QTP.**
- What are checkpoints?
- How to Add Checkpoints?
- What is an Object?
- What is a property?
- What is a Value?
- What is VB Script?
- What is a Light weight language?
- **12th Lab Exercise on Checkpoints**
- How many type of checkpoints are there?
- What is Standard Checkpoint?
- What is Database Checkpoint?
- What is Bitmap Checkpoint?
- What is Text Checkpoint?
- What is a Text Area Checkpoint?
- What is Keyword View?
- What is Action?
- What is Expert View?
- What is Global sheet?
- How to record a corporate style script in QTP?
- **13th Lab Exercise on QTP**

Session 6: ADVANCE Automation Testing, ADVANCE QTP, HP Functional Testing

- What is Parameterization?
- How to do Parameterization?
- How do I get data?
- **14th Lab Exercise on Parameterization**

- What is dynamic Value?
- What is Output Value?
- **15th Lab Exercise on Output Value**
- What is static data?
- What is variable data?
- What is dynamic data?
- What is virtual data?
- How do I write VBScript code using notepad without QTP?
- How to understand VBScript code generated by QTP?
- How to fix a broken script in VBScript?
- **16th Lab Exercise on fixing a broken script.**
- What is Object Repository?
- What is Exception Handling?
- What is Recovery Scenario Manager?
- What is Standard Recording?
- What is Analog Recording?
- What is Low Level Recording?

Session 7: Resume Preparation and Mock Interview

- Resume Preparation Tips.
- Sample Resumes
- Sample Interview Questions on QTP.
- Sample Interview Questions on LoadRunner?
- How to clear an Interview?
- How to build confidence?
- How to crack a QA Interview?
- Mock Interview

Training Materials provided:

- Installation Guides to Install Quality Center and QTP.
- Testing Definitions
- Copy of Sample Test Plan – Real Project.
- Sample Test Cases
- Sample Defects
- Sample BRD
- Quality Center Guide
- QTP Guide
- Professional LoadRunner Report
- Interview Questions on QTP and LoadRunner.
- Sample Resumes