

Software Quality Testing

Curriculum

INTRODUCTION TO SQT

INTRODUCTION

- History of software Engineering
- Software Testing – The Basics
- What is Software Testing?
- Why we are doing testing?
- How to perform the Testing?
- Benefits of testing Terms used in Software Testing-Defect, bug, Error, Failure, Fault,

Software Development Life cycle (SDLC)

Software Engineering Methodologies/Models Waterfall Model

- Prototype Model
- Incremental Model
- Iterative Model
- Spiral Model V -Model
- Agile

Quality

- Quality Assurance and Quality Control
- Verification And Validation

Software Testing Methodologies/Approaches

- White Box
- Black Box
- Gray Box

Level of Testing

- Unit Testing
- Integration Testing
- System Testing
- UAT

Categories of Test Design Technique

- Static Testing Technique
- Walkthroughs
- Inspection
- Reviews

Dynamic Testing Technique

- Structure Based
- Experienced Based

- Specification based

Black Box testing (Optimizing Technique)

- Boundary Value Analysis
- Equivalent Class Partition
- Decision Table
- Use Case design Technique
- Error Guessing

Type of Testing

- Smoke testing
- Sanity testing
- Exploratory Testing
- Ad-hock Testing
- Monkey Testing
- End to End testing
- Re-Testing Regression Testing
- GUI testing
- Security Testing
- Performance Testing
- Usability Testing

Software Testing Life Cycle

Test Plan

Bug/Defect Management

- How to log a Bug?
- Bug Life Cycle

Introduction Of Web-based Testing

Real Time Implementation of Testing Projects and Domain Knowledge Session

LIVE PROJECT

- Review of Test cases(Lab)
- Execution Of test cases(Lab)
- Bug Reporting Process(On Live Projects/Lab)

Data Base Testing Introduction and Guideline

AUTOMATION TESTING TOOLS

QUICK TEST PROFESSIONAL (QTP)

- Introduction
- Type of Recording
- Normal
- Analog
- Low level

Type and Merging of OR Actions

- Call to new Action
- Call to copy Action
- Call to Existing Action

Check Points

- Standard Check Point
- Text Check Point
- Text Area Check Point
- Database check Point
- Bit Map Check point
- Accessibility Check point
- XML check Points

Parameterization Output Values

- Standard Output values
- Test Output values
- Test area output values
- Database Output Values
- XML Output Values

Exception Handling using Recovery Scenario Manager

- Pop-Up Recovery
- Object State
- Test Run Error
- Application Crash
- Batch Execution

QUALITY CENTER (QC)

- Introduction
- Site Administration
- Test Planning
- Test Execution
- Defect Tracking
- Attachment technique

LOAD RUNNER (LR)

- Introduction
- Load Runner Testing Process
- V-user Scripts
- Working with V-user
- Transactions
- Rendezvous Point
- LR Controller