V-Soft Consulting Group Inc.,

Software Quality Testing Curriculum

INTRODUCTION

- Meaning of testing, Quality, Quality assurance, Quality Control
- Difference between Quality Assurance and Quality control
- Software Testing Techniques
    - Black Box
    - White Box
    - Grey Box
- Software Development Life Cycle (SDLC)
- Software Testing Life Cycle(STLC)
- Difference between SDLC and STLC
- Bug Life Cycle
- Life Cycle Model
- ISO & CMM certifications and its relevance:
- Testing Types, Methodologies & Levels
- Manuals V/S automated testing
- Report analysis
- Defect tracking

MANUAL TESTING (MT)

- Introduction of Manual Testing and its Limitations
- Manual Testing Process
- Test Policy
- Test Strategies
- Test Methodology
- Test Plans
- Test Design Specification
- Test Cases
- Defect Report
- Traceability Matrix
- Defect Tracking
- Measurement

AUTOMATED TESTING TOOLS
(Mercury Interactive)

WINRUNNER (WR)

- Introduction to Win Runner
- Testing process
- Learning Methods
    - Prelearning by Rapid test Script Wizard
    - Autolearning
- GUI Map
- Recording Methods
    - Context Sensitive
    - Analog

- Editing the GUI map
- GUI Spy
- GUI Map Configuration
- Check points
    - GUI Checkpoints
    - Bitmap Checkpoints
    - Database Checkpoints
    - Get Text
- Synchronizing test Execution
- File Function
- Output Function
- Retesting
    - Through Dynamic Input Submission
    - Through Flat File
    - Through Data Driver Wizard
- Compiled Module
- Function Generator
- Regular Expression
- Batch Test
- Exception Handling
- Virtual Objects Wizard
- Breakpoints
- Watch list
- Web Application Testing
- Analyzing & Reporting Test Results

LOAD RUNNER (LR)

- Introduction
- Load runner testing process
- Vuser Scripts
- Working with Vuser
- Transactions
- Rendezvous points
- LR controller
- Scenarios
- LR Agent
- Remote Command Launcher
- LR Scripting (GUI, DB & Web)
- Parameterise the Scripts
- Analyzing Reports & graphs

TEST DIRECTOR (TD)

- Introduction
- Administration
- Test Planning
- Test Execution
- Remote defect Reporter
- Remote viewer
- Filter Technique
- Sorting Technique
- Attachment Technique
- Defect Tracking
- Connection from WR, LR

QUICK TEST PROFESSIONAL (QTP)

- Introduction
- Testing Process
- Recording Tests
- Check Points
    - Standard
    - Table
    - Text
    - Text Area
    - Database
    - Bitmap
    - Page
    - Accessibility
    - XML
- Parameterization
- Output Values
    - Standard
    - Text
    - Text Area
    - Database
    - XML
- Using Regular Expression
- Object Identification
- Recovery Scenario Manager
- Actions
    - Dividing Tests Info Multiple Actions (split function)
    - Call to New action
    - Call to Existing Action
    - Call to Copy of Action
    - Call to Winrunner
- Documentation