



Software Testing or Software Quality Assurance?

Software Quality Assurance (SQA) encompasses the entire software development process, which includes processes such as:

- * Requirements definition
- Software design
- Coding, source code control, code reviews
- Software configuration and release management
- * Testing and product integration

SQA is organized into goals, commitments, abilities, activities, measurements, and verifications.

Software Testing can be viewed as the process of validating and verifying that a computer program/application/product:

- Meets the requirements that guided its design and development
- * Works as expected
- Can be implemented with the same characteristics
- Satisfies the needs of stakeholders

SQA Lifecycle Activities

Requirements/Specification

Architecture

Construction

Design

Testing

Debugging

Deployment

Maintenance



Why QA?



We can't fix it if we don't know what's broken.

"You cannot go back and add quality. By the time you figure out you have a quality problem, it is probably too late to fix it." -- John Reel, CIO Trident Data Systems *

Our Mission:

We will test early, validate along the way, collaborate with business partners, and deliver a quality product!

<u>Transition Management</u> <u>Partnership</u>

Communications
Coordination
Quality

Quality Assurance

Testing
Defect Management
Requirements Management
Environment Management
Test Planning
Automation

Repeatable Processes
Efficiency
Measurements
Quality

Change Management

Planning
Scheduling
Impact Analysis
Communication
Authorization
Change Advisory Board

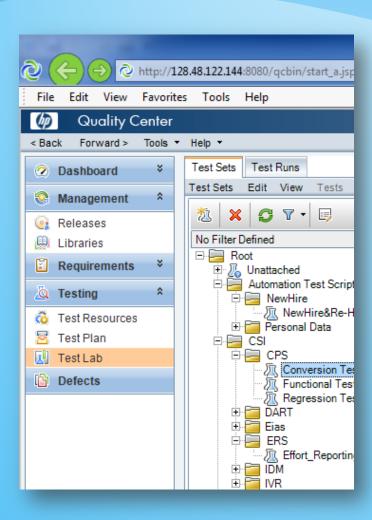
Release Management

Versioning
Quality Implementation
Source Control

Continuous Improvement Reporting Managing

Traceability
Consistent
Experience
Tracking

Tools



HP Quality Center (QC)*

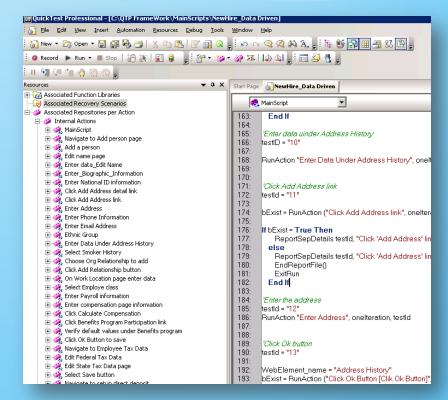
- Requirements
 - At FSPD level of detail
- Testing
 - Test Plan Scripting
 - Test Lab Execution
- Defect Tracking
- Reporting

* Soon to upgrade to Application Lifecycle Management (ALM)

Tools

Unified Functional Test (UFT)

- Used for test automation
- Focus on designing tests, not execution
- Will be leveraged for SIT and ongoing regression testing
- Benefits
 - Faster than human testers
 - Reliable--tests perform the same steps each time
 - Use same test for different sets of data
 - Reuse tests in different environments
 - Can program more sophisticated tests



Roadmap



Centralized Testing began by testing payroll and enterprise reporting applications:

- * PPS (Payroll: Mainframe System)
- ERS (Enterprise Reporting System: Web Application)

Roadmap

Today, we've added the Research Enterprise Management System and Decision Support Systems:

REMs (Research Enterprise Management Web Application)
Decision Support Systems:

- * Under-graduate
- Contracts and Grants
- * Degree

Roadmap

Our Future

UCPath: The test team is being trained and mentored on Payroll, Human Resources, Benefits, Absence Management, Commitment Accounting, and Time and Attendance modules as well as the interfaces.

The UCOP roadmap supporting the strategy of "Deliver



quality services through continuous assessment and improvement" is to move all UCOP applications into the centralized testing

Benefits of Independence

- Cost effective through implementation of key learnings
- Cross-trained staff for coverage
- Standard processes and practices
- Continuous improvement practices
- Predictability with test case inventory
- Integrated tool suite providing reporting and metrics
- Separation of functions
- Professionalism with peer reviews
- End-to-end mapping of requirements, test cases, defects

QA Leadership





Get to Know Us

Where we came from...

- Andhrapradesh, India
- Baku, Azerbaijan
- Hyderabad, India
- Moscow, Russia
- Mumbai, India
- Quezon City, Philippines
- Rangoon, Burma
- San Diego, CA, USA

Where we are now...

- Concord
- Dublin
- Fremont
- Garden Grove
- Pleasanton
- Richmond
- San Francisco
- San Ramon
- So. San Francisco
- **Union City**
- Walnut Creek

What comes in the package...

- 166 years of testing experience
- **59** years of PeopleSoft testing experience
- **42** years of management experience

We are ...

Fashion Designers

Photographers

School Volunteers **Travelers**

Awesome Parents/Grandparents **News Junkies**

Cricket Players **Dancers**

Animal Lovers

Hikers/Nature Lovers Singers Cooks

Museums & Historical Sites

Beach Lovers

Readers

Questions?

Now It's Your Turn.....