

QUALITY ASSURANCE OVERVIEW

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Further Information

- ▣ COMMON Annual Meeting and Expo
 - Agile Testing and Concepts (T 2014-05-06 5-6:15 PM)
 - Testing Using Automated Techniques and Concepts (W 2014-06-07 8-9:15 AM)
- ▣ OMNI Day of Education (TBD)
- ▣ MVCC – Spring 2015 Friday evening 8 week, 1 credit
- ▣ On Demand – CTFL course pending certification via ISTQB

Testing Principles

- ▣ Testing shows presence of defects
- ▣ Exhaustive testing is impossible
- ▣ Early testing
- ▣ Defect clustering
- ▣ Pesticide Paradox
- ▣ Testing is context dependent
- ▣ Absence of error fallacy

Waterfall Model

Need, Wish, Policy, Law

> User Requirements

> System Requirements

> Global Design

> Detailed Design

> Implementation

>

Testing

V-Model

Need, Wish, Policy, Law

Operational Sys

User Requirements > Acceptance Testing

System Requirements > System Test

Global Design > Integration Test

Detailed Design > Component Test

Implementation

Iterative Life Cycles

Types Include

- ▣ Rapid Application Development
- ▣ Agile Development

Test Levels

- ▣ Component Testing
- ▣ Integration Testing
- ▣ System Testing
- ▣ Acceptance Testing

Debugging versus Testing

- ▣ Debugging – The process of finding, analyzing, and removing the causes of failures in Software
- ▣ Testing – The process consisting of all lifecycle activities, both static and dynamic, concerned with planning, preparation, and evaluation of software products and related work products to determine that they satisfy specified requirements, to demonstrate that they are fit for purpose and to detect defects

Examples

- ▣ Healthcare.gov
- ▣ Disney!
- ▣ Lithium Batteries
- ▣ Stock Market Flash Crash

See Rex Black Consulting Services Podcast

<http://www.rbc-us.com/software-testing-resources/podcast/229-ten-bugs-that-shook-the-world>