QUALITY ASSURANCE OVERVIEW

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Kronos Application Consultant
COMMON Annual Meeting and Expo
  - Agile Testing and Concepts (T 2014-05-06 5-6:15 PM)

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.rbcs-us.com/software-testing-resources/podcast/229-ten-bugs-that-shook-the-world