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Software Testing

SOFTWARE TESTING

Topic 1: Basic concepts

- Basic Testing Vocabulary
 - Quality Assurance versus Quality Control
 - The Cost of Quality
 - Software Quality Factors
 - How Quality is Defined
 - Why Do We Test Software?
 - What is a Defect?
 - The Multiple Roles of the Software Tester(People Relationships)
 - Scope of Testing
 - When Should Testing Occur?
 - Testing Constraints
 - Life Cycle Testing
 - Independent Testing

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- What is a QA Process?
- Levels of Testing
- The "V" Concept of Testing

Topic 2:

Testing Techniques

- Structural versus Functional Technique Categories
- Verification versus Validation
- Static versus Dynamic Testing
- Examples of Specific Testing Techniques

Test Administration

- Test Planning
- Customization of the Test Process
- Budgeting
- Scheduling

Create the Test Plan

- Prerequisites to test planning
- Understand the Characteristics of the Software Being Developed
- Build the Test Plan
- Write the Test Plan

Topic 3:

- Test Cases:
- Test case Design
- Building test cases
- Test data mining
- Test execution
- Test Reporting
- Defect Management
- Test Coverage Traceability matrix

Test Metrics – Guidelines and usage

Test reporting: Guidelines for writing test reports



Topic 4: Test Tools used to Build Test Reports

Managing Change

- Software Configuration Management
- Change Management

Risks – Risk Analysis and Management with examples
User Acceptance testing – in detail explanation with details
Case Study: How to test web, stand alone and database applications – with examples.
Help with resume and testing interview skills.

Topic 5:

Automation Testing Basics

- Basics of automation testing why, when and how to perform automation testing
- Factors for choosing a particular tool
- An overview for the major functional testing tools
- Overview of Test management and bug tracking tools