

Overview - Serious Test Case Design

Course Objectives

1. To describe and teach a number of black box test case design techniques, some of which are manual, and some of which are supported by tools, and to describe the advantages and disadvantages of each technique
2. To contrast and compare the number of test cases and the amount of test coverage derived by each black test case design technique across the same problems
3. To provide hands on experience with a number of black box test case design tools

Topics

- A) Installing software that will be used in the course
- B) Testing definitions:
 - What is Black Box testing?
 - What is test case design?
 - What is a test case?
 - What is the Test Basis?
- C) Manual Black Box Test Case Design Techniques
 1. Equivalence Partitioning
 2. Boundary Value Analysis
 3. Decision Tables
 4. Use Case Testing
- D) Black Box Test Case Design Techniques with tool support:
 5. Classification Trees
 6. Pairwise Testing using a number of tools
 7. Combinatorial Testing using a number of tools
 8. Cause-Effect Graphing
- E) Comparison of the number of Test Cases and the amount of Test Coverage across the Black Box Test Case Design Techniques for the same problems
- F) Side by side comparison of the features of each Black Box Test Case Design Technique
- G) The Do's and Don'ts of writing test cases
- H) Summary

Length of Course – 2 days

Course Materials

There are two binders of material provided. The course includes extensive examples and exercises to cover each test case design technique.

NOTE: Laptop computers with access to the internet are required for this course

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