Introduction to Software Verification, Validation and Testing

Testing Principles and Best Practices



Objective



Objective

Explain best practices for software testing.

Testing Principles

Principle 1:

 Testing only shows the presence of defects – not proof of correctness

Principle 2:

Exhaustive testing is impossible

Principle 3:

Start testing early

Testing Principles

why?

- comploxity - institutes - proframmer - pressure - changes

Principle 1:

 Testing only shows the presence of defects – not proof of correctness

Principle 2:

Exhaustive testing is impossible

Principle 3:

Start testing early

Principle 4:

- Defects cluster

Principle 5:

Testing is context dependent

Principle 6:

Absence-of-errors fallacy



Testing Attitude

SE Licensing

Educators Experien/Tests

TEXAS

Independence

Customer perspective

Demonstrate that the system works (test intended functionality)

Demonstrate that the system is bullet proof (test unintended functionality)

Professionalism

1. bild