

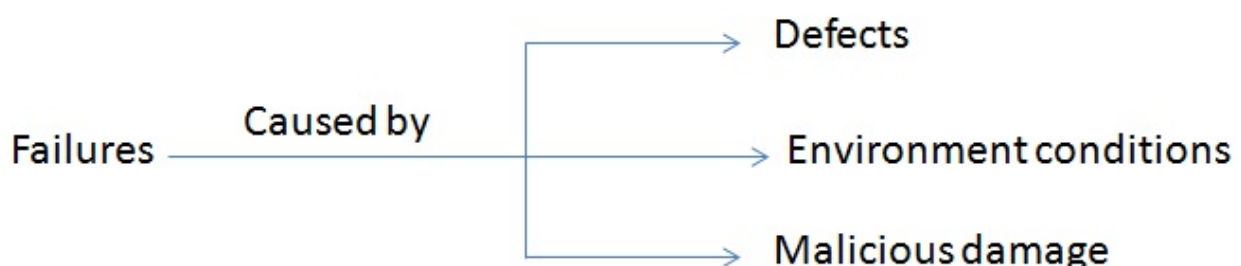
ISTQB Foundation Level Cheat Sheet

BHAVIN THUMAR



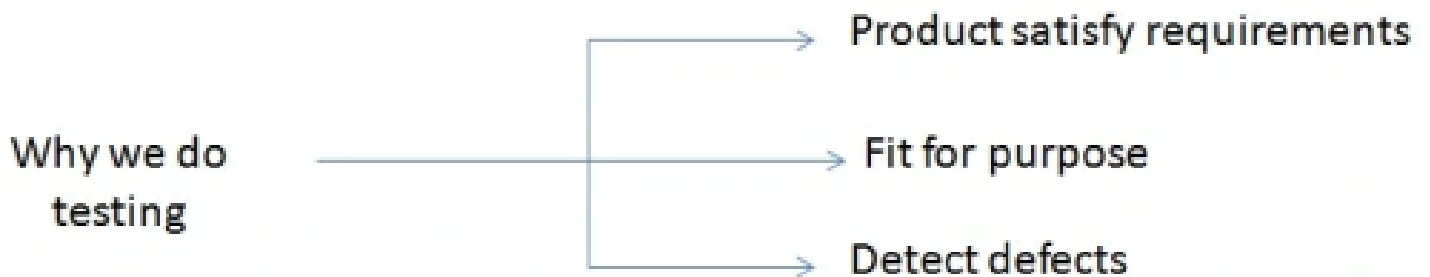
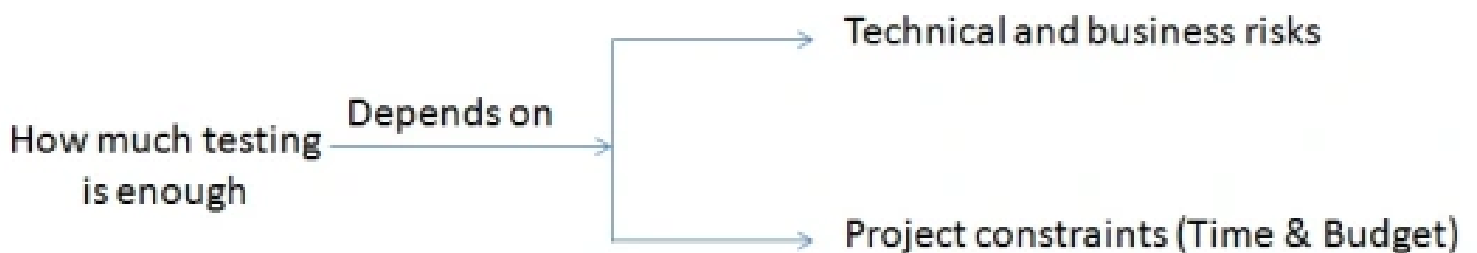
Chapter 1 - Fundamentals of testing

- Risk has an impact and probability
- Origins of defects/bugs/faults are errors/mistakes
- Not all defects cause failure



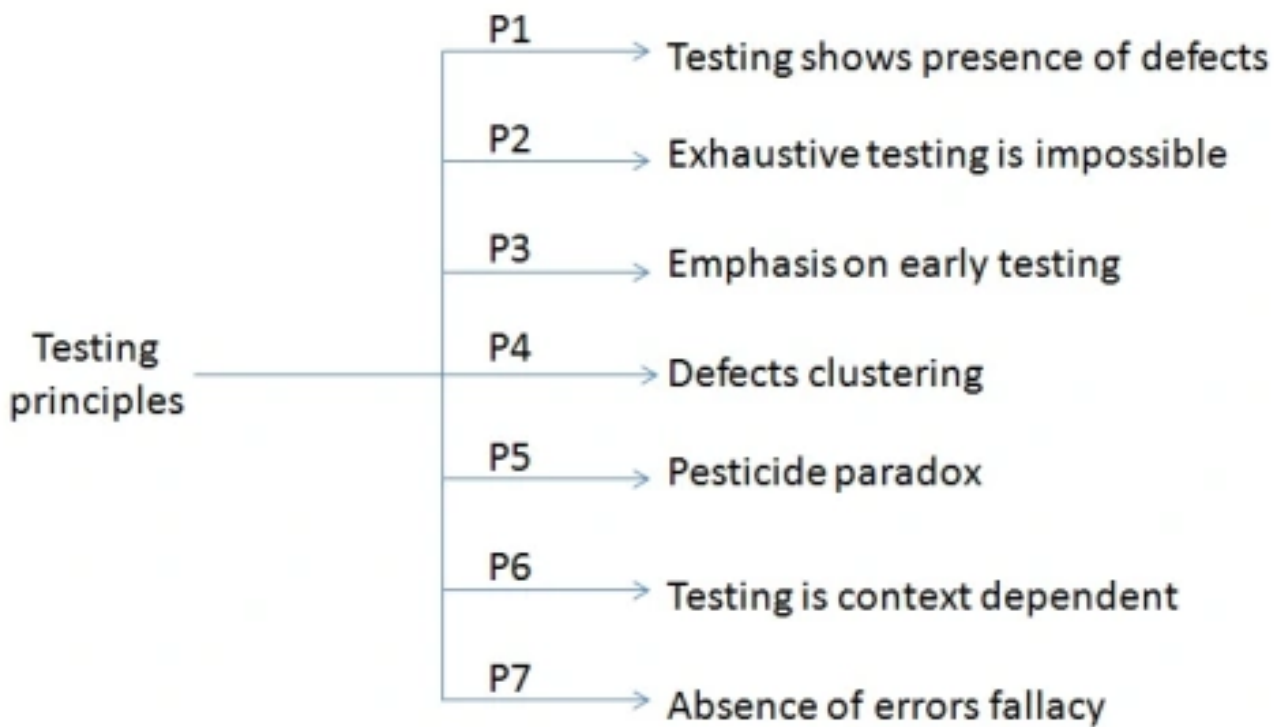
Elements of fundamental test process:

- Test planning and control
- Test analysis and design
- Test implementation and execution – Creation of test suites(logical collection of cases)
- Evaluating exit criteria and reporting
- Test closure activities

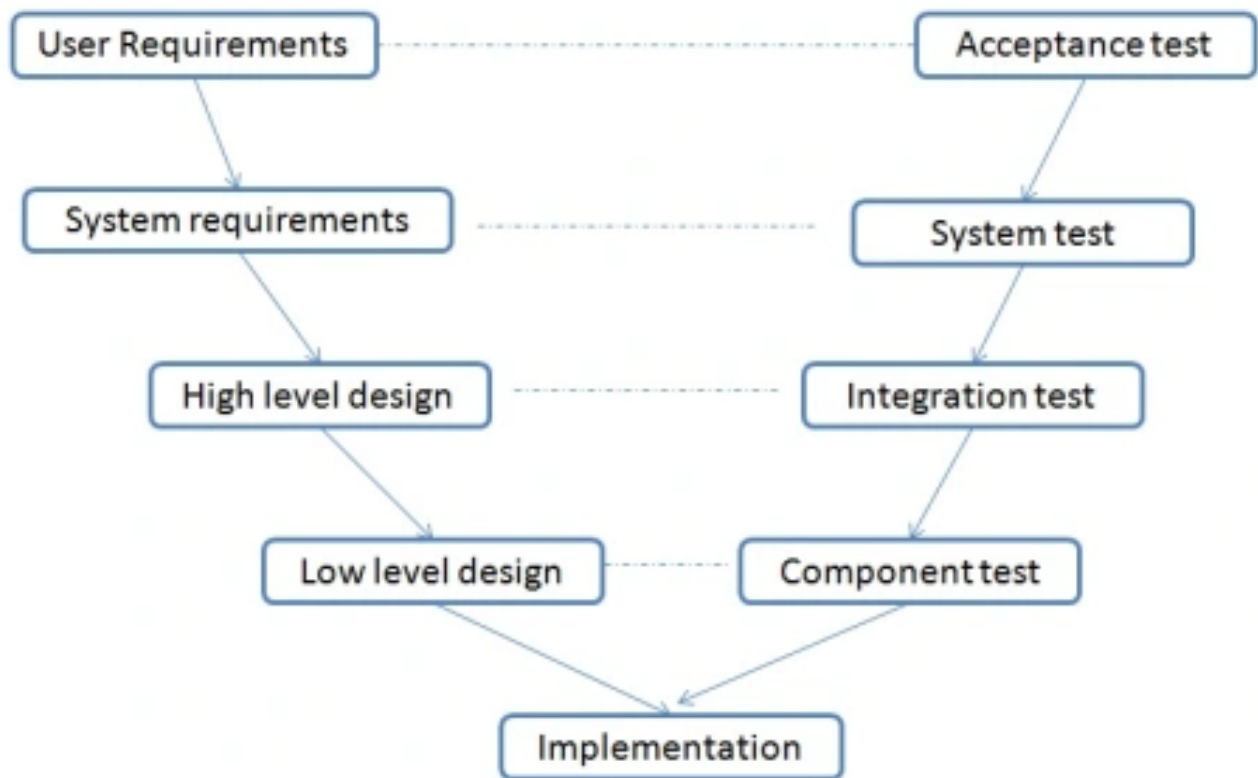


Best practices while reporting defects:

1. Communicate findings in a neutral, fact-focused way. Don't criticize.
2. Be pessimistic and start with collaborations rather than battles.

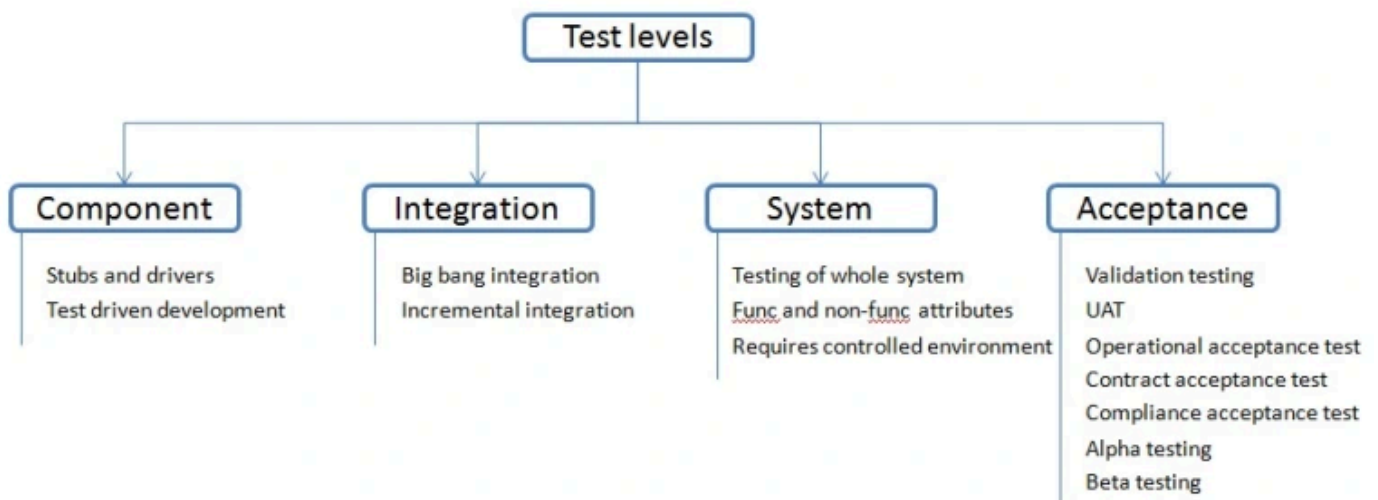


Chapter 2 – Testing throughout the software test cycle



Test levels

- Component testing
- Integration testing
- System testing
- Acceptance testing

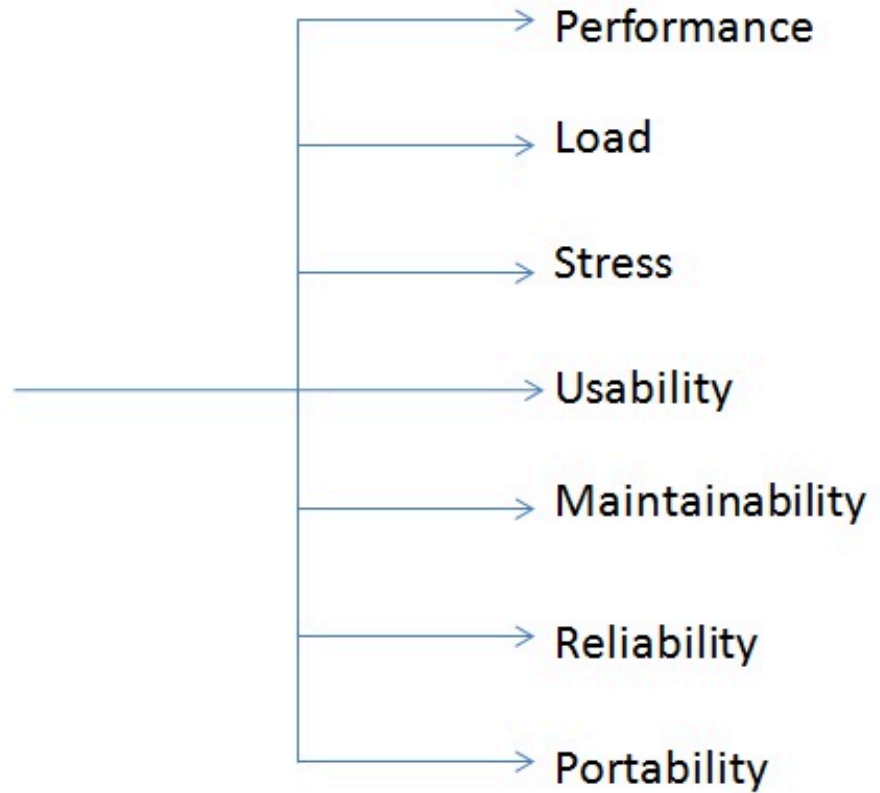


Testing types

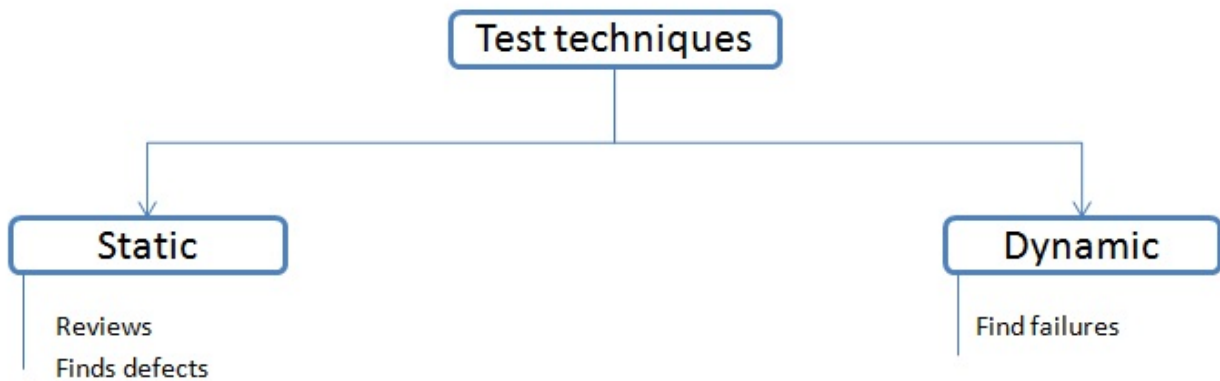
- Functional testing
- Non-functional testing



Non-functional
testing



Chapter 3 – Static Techniques



Different phases of formal review:

1. Planning:

- Moderator assignment, Define entry criteria
- Number of reviewers, Size of document, roles for reviewers

2. Kick-off – Introduction to reviewers, Role assignments

3. Preparation – Actual review. Issues are recorded

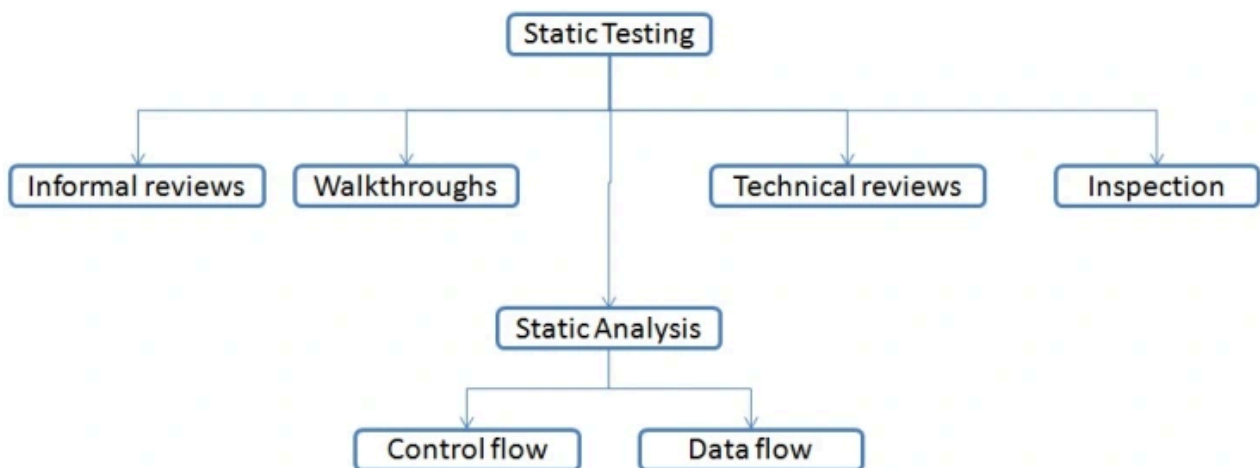
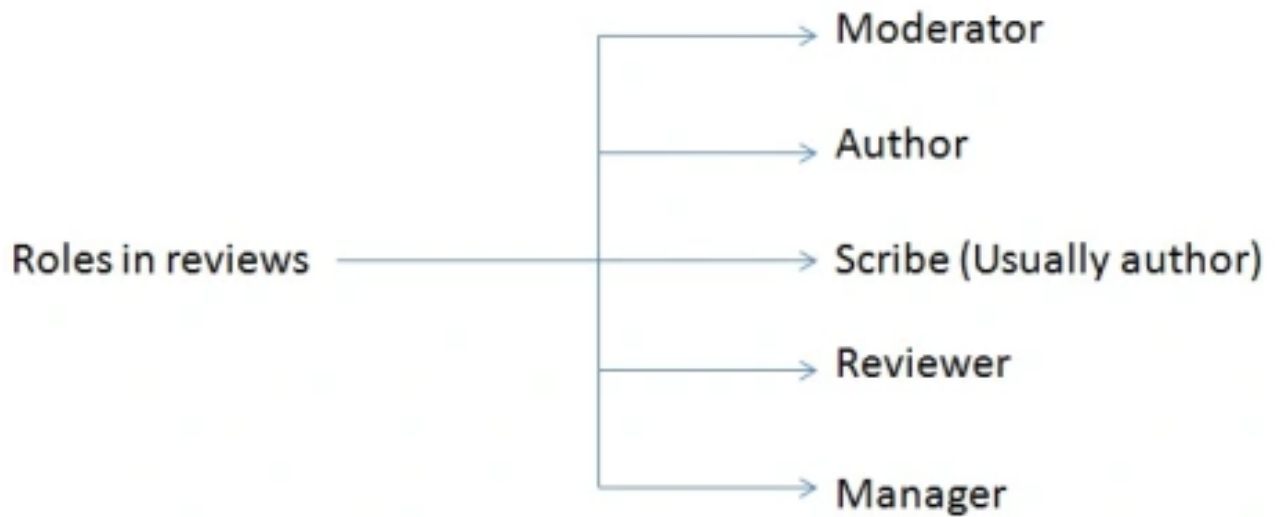
4. Review meeting:

- Logging phase
- Discussion phase
- Decision phase

5. Rework

6. Followup phase – To be done by the moderator.

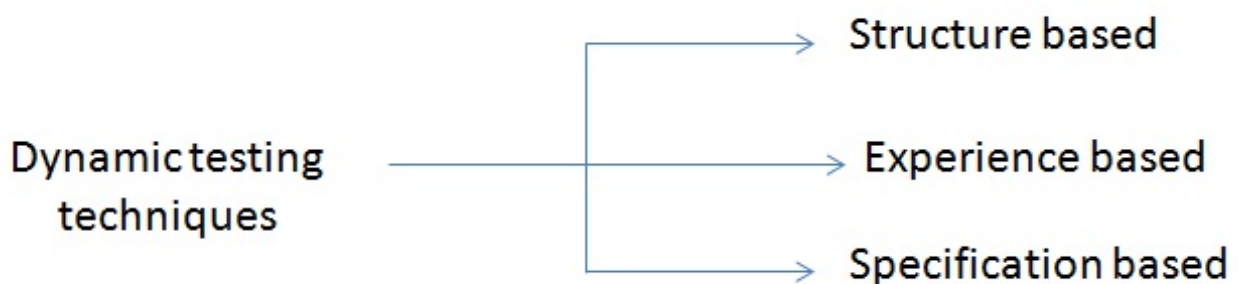


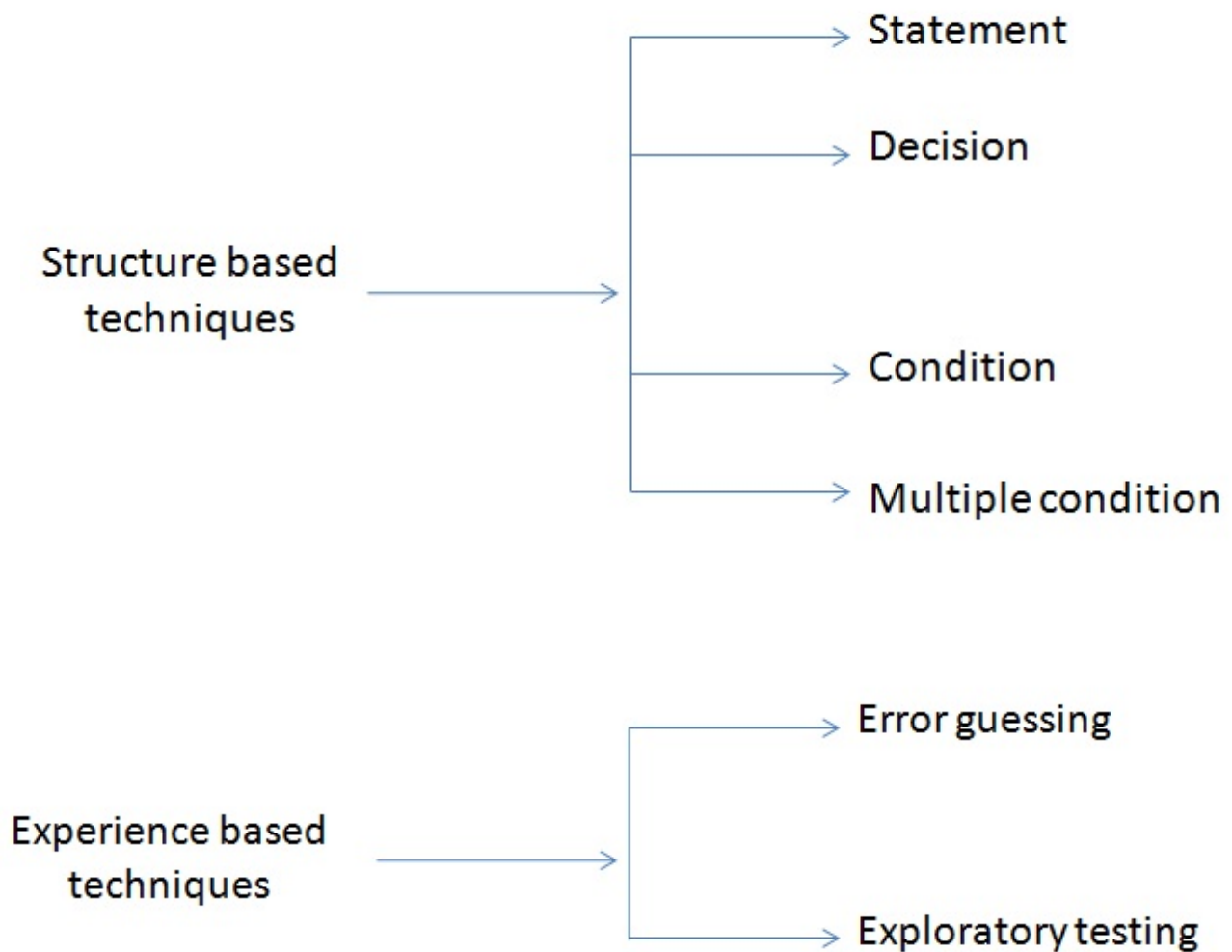


Chapter 4 – Test design techniques

Some key definitions:

1. Test cases are documented in a test case specification
2. Test procedures are documented in a test procedure specification
3. Test analysis is done to identify test conditions on some 'basis'
4. Test condition is something we can test
5. Test possibilities – Biggest set of test conditions – Some of these could be discarded
6. Test case:
 - Defined input and expected output. Concept of oracle.
 - If the expected output is vague then it's a partial oracle
 - Should have objective
7. Test procedure/Test scripts – Document that defines steps to be taken while running tests





Specification based testing

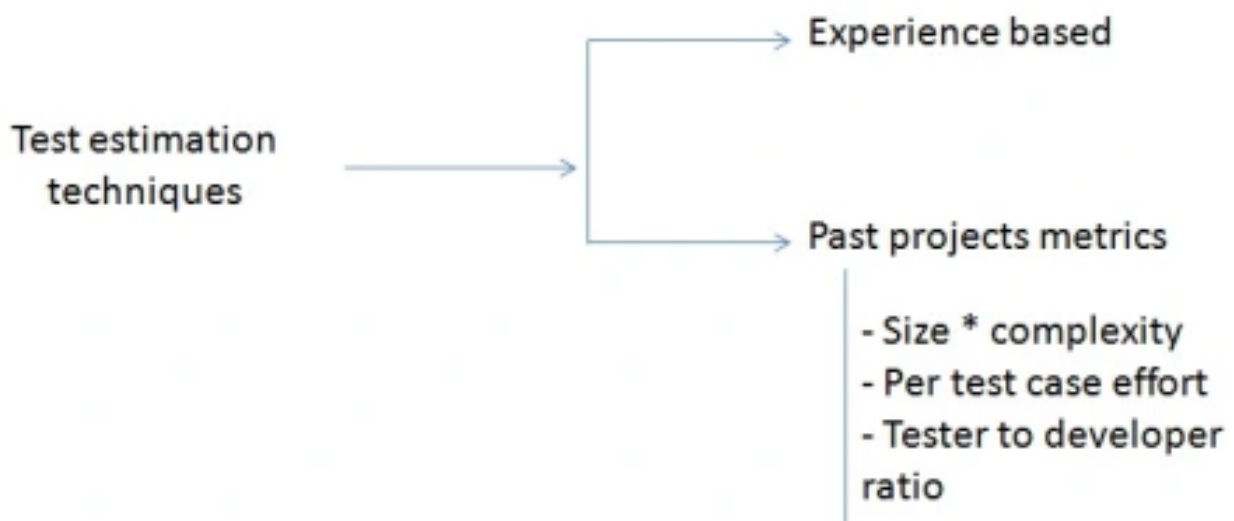
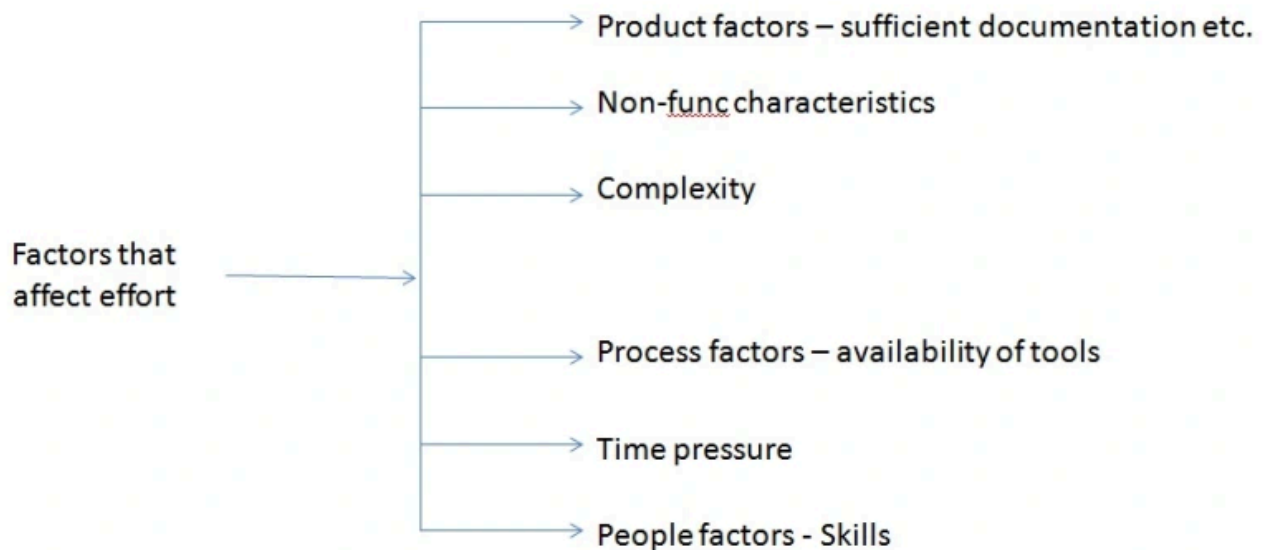
- Equivalence Partitioning
- Boundary value analysis
- Decision tables
- State transition
- Use case testing

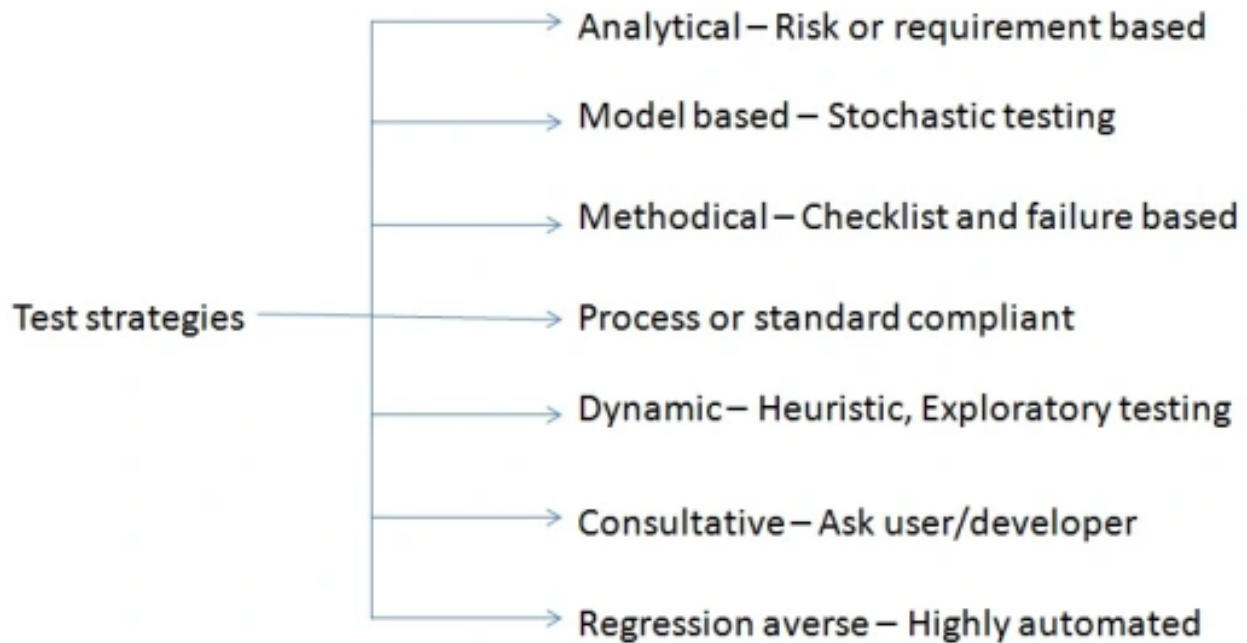


Chapter 5 – Test management

Skills needed in tester

- Knowledge of application/business domain
- Technology
- Testing process





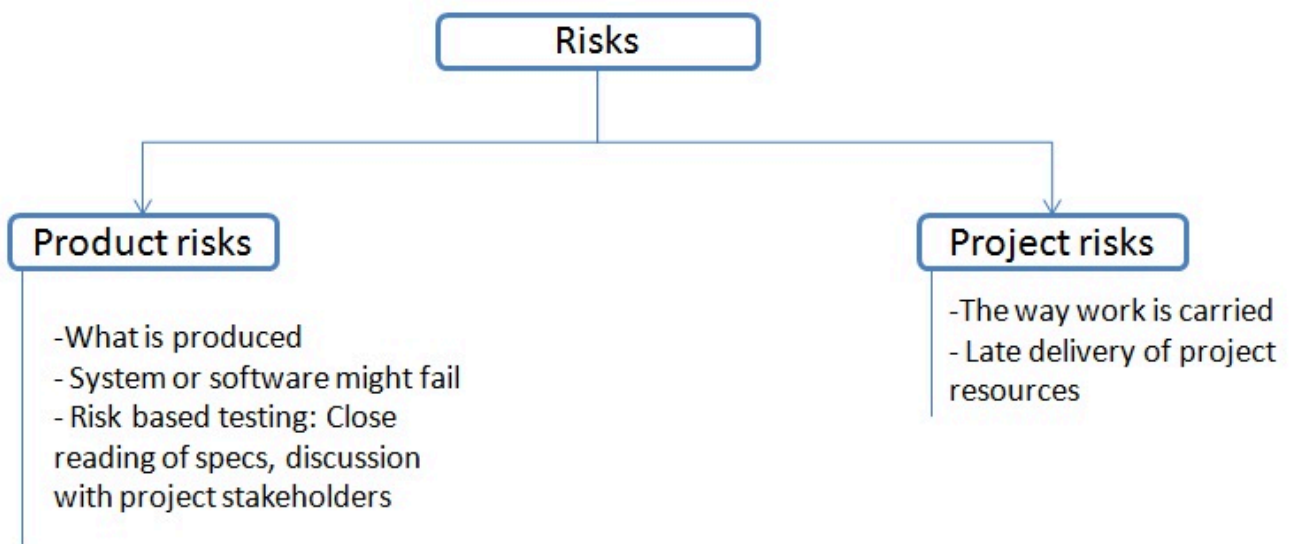
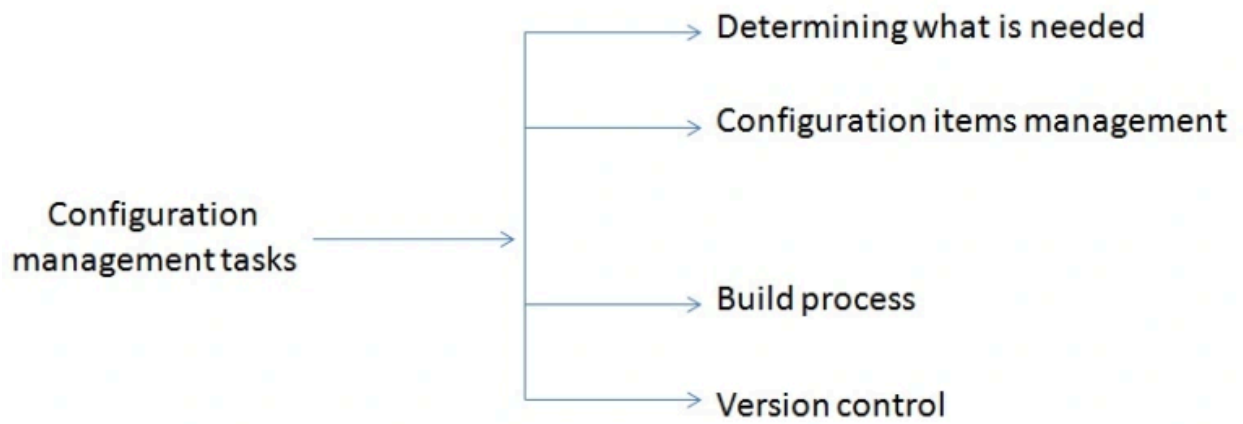
Why to do test monitoring

- Feedback to test team and manage
- Visibility on results
- Test coverage status
- Data for future estimation

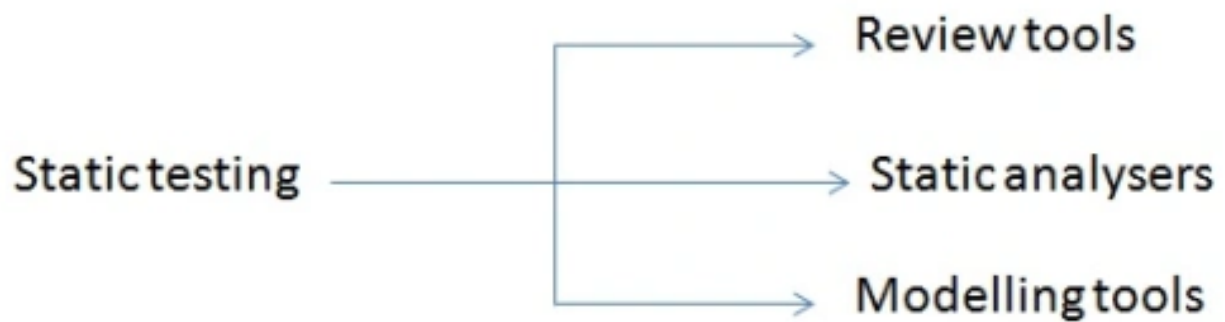
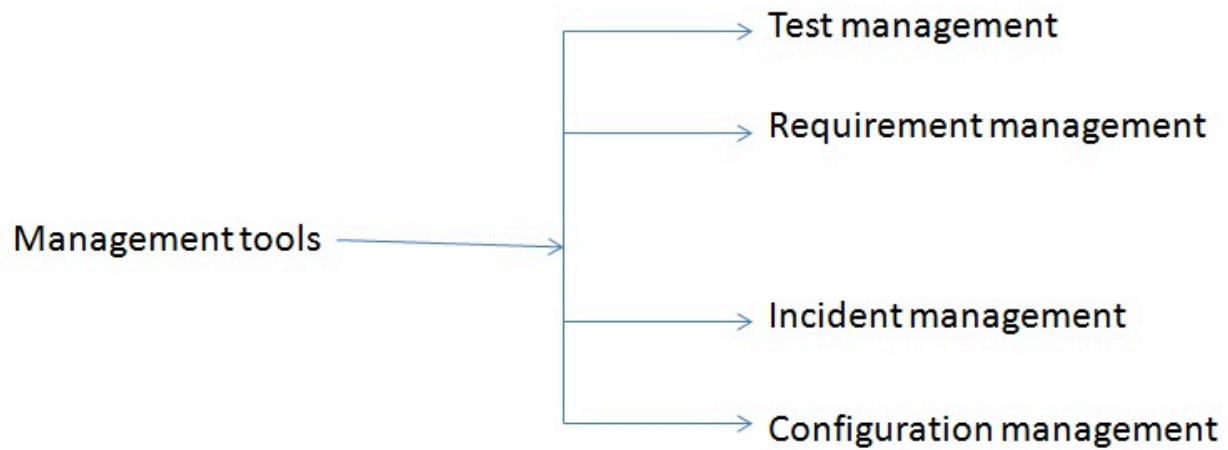
Why to do test reporting

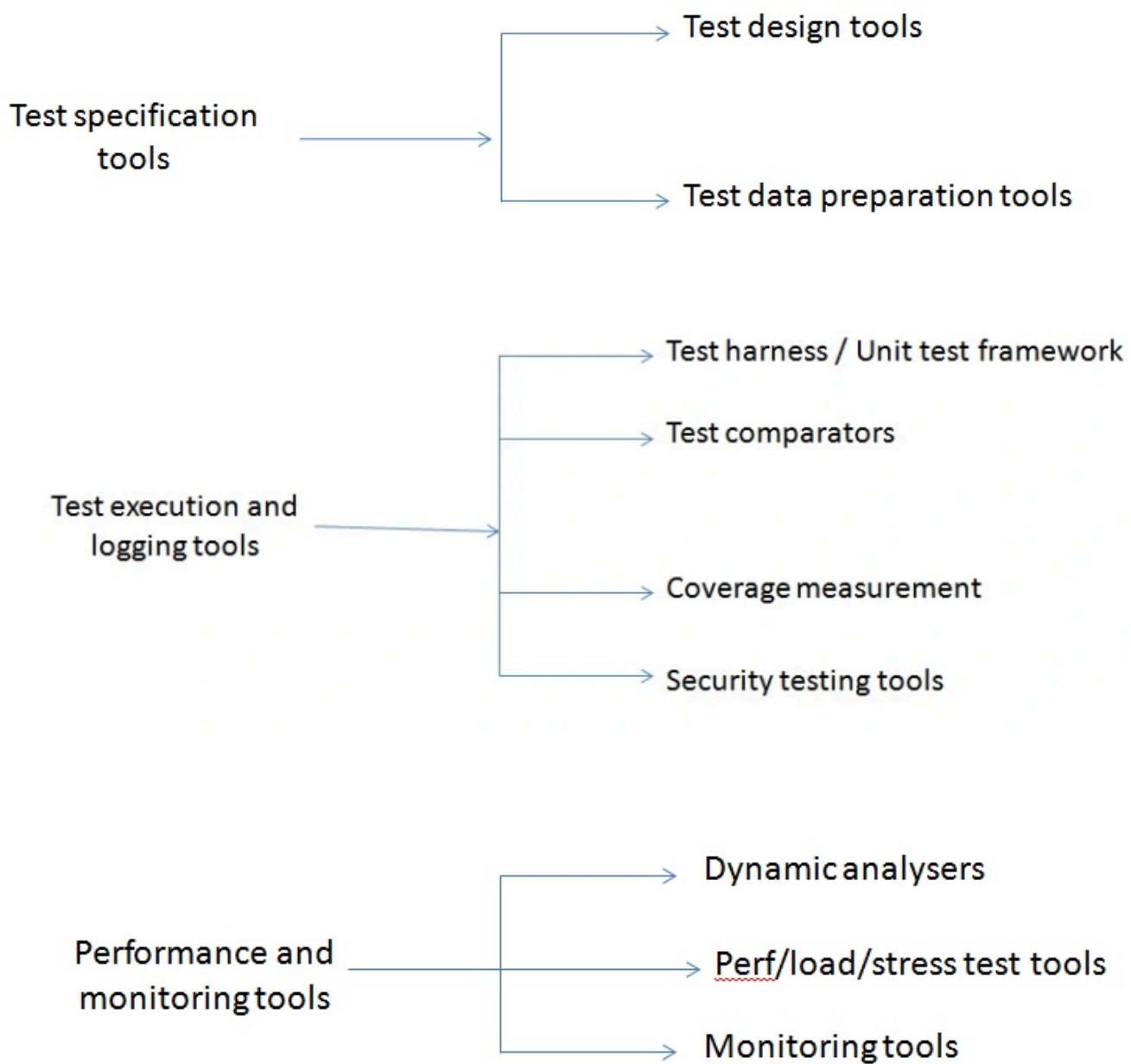
- Helps stakeholders to understand results
- Enlighten and influence stakeholders





Chapter 6 – Tools





General notes related to key questions

Test plan should include:

1. Test plan identifier
2. Introduction
3. Test items
4. Features to be tested
5. Approach
6. Item pass/fail criteria
7. Suspension and resumption criteria
8. Test deliverables
9. Testing tasks
10. Environment needs
11. Responsibilities
12. Staffing and training needs
13. Schedule
14. risks and contingencies
15. Approvals



Test summary report should include:

1. Test summary report ID
2. Summary
3. Summary of activities
4. Evaluation
5. Comprehensive assessment
6. Variances
7. Summary of results
8. Approvals

Incident description as per IEEE standard:

1. Inputs
2. Expected results
3. Actual results
4. Anomalies
5. Date and Time
6. Procedure step
7. Attempts to repeat
8. Testers
9. Observers

