

Software Quality Management

Product quality

Requirement quality

Design quality

Code quality

Quality Factors

1. Portability [OS + Machine + with other SW product]

2. Usability Different categories of users.

3. Reusability Modules can be reused.

4. Correctness implements SRS correctly.

5. ~~Maintainability~~ Maintainability
New functionality can be added.
SW can be modified easily.

6. Reliability Expected to perform intended functions

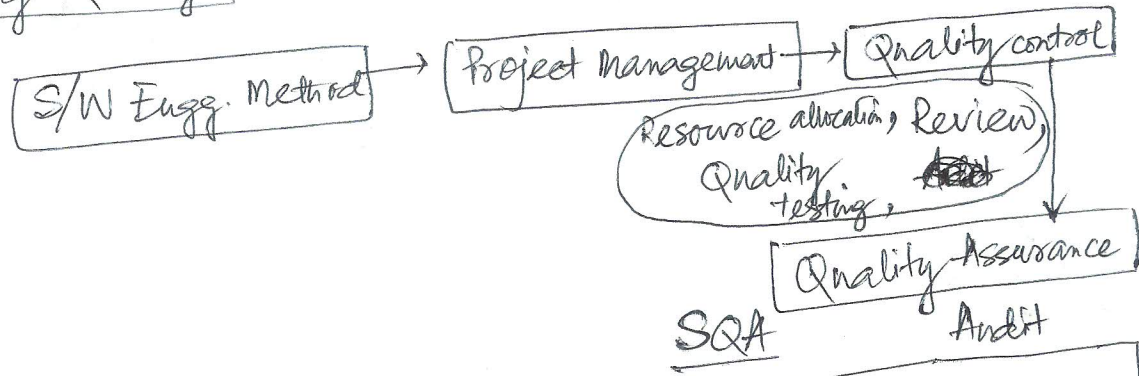
Good enough software

A short-cut solution

A software with high functionality feature but has some bugs in it. End user overlooks the bugs as he is happy with the functionality.

Risk to company reputation.

Achieving Quality



Elements of SQA

- Standards
- Reviews & audits
- Testing
- Defect collection/analysis
- Change management

Requirement Quality

Ambiguity, Completeness, Understandability, Volatility, Tracability, Model clarity

Design Quality

Architectural integrity, Component completeness, Interface complexity

Code quality

Complexity, Maintainability, Understandability, Reusability, Documentation.

The ISO 9000 Quality Standards

ISO certification