Measures the quality of the software Why is Testing Necessary? Gives confidence in the quality Reduces the overall level of risk How much testing? Depends on risk, safety & project constraints Finding Defects Providing information for decision-making Testing Objectives Preventing defects Gaining confidence about the level of quality Testing shows presence of defects Exhaustive testing is impossible Early testing Seven Testing Principles Defect clustering Pesticide paradox Testing is context dependent Absence-of-error fallacy Planning & Control Analysis & Design Fundamental Test Process Implementation & Execution Evaluating Exit Criteria & Reporting Test Closure Mindset of Developer & Tester The Psychology of Testing Communication in a constructive manner Test Independence

Public

Client and Employer

Product

Judgement

Management

Code is necessary, among other reasons, to ensure information accessed by testers are not put to inappropriate use

Code of Ethics

Profession

Colleagues

Self

Extensive regression testing required

2 Testing Throughout the Software Life Cycle



Walkthrough

Technical Review

Inspection

Review Types

Planning

Kick-off

Individual Preparation

Review Meeting

Rework

Follow-Up

Activities of a Formal Review

Find defects in software source code and models

Can locate defects that are hard to locate in dynamic testing

Static Analysis by Tools

Test Development Process

Test Design Specification

Test Case Specification

Knowledge & Experience









