

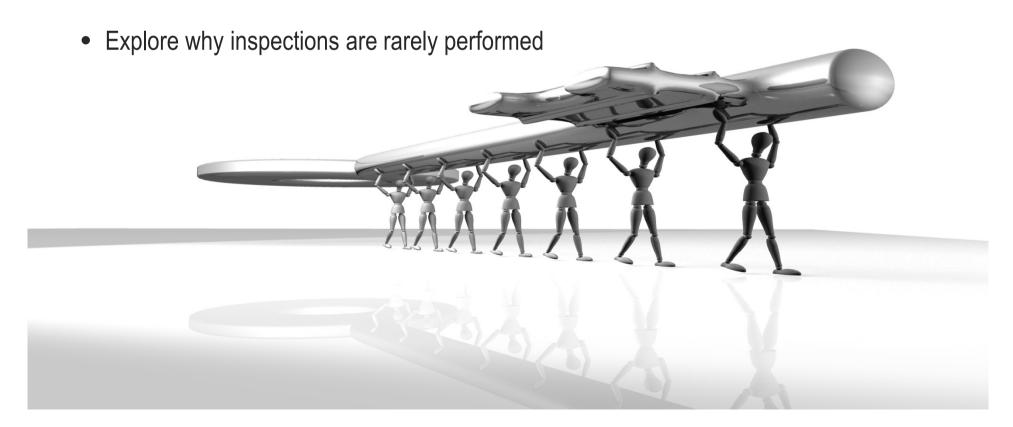




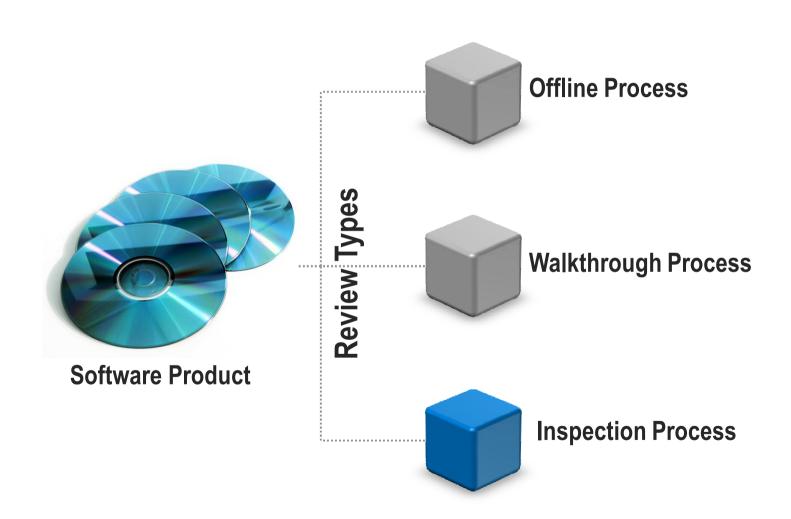
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### **Learning Bites**

- Identify the different types of review process
- Describe what Fagan Inspection is and why it is needed
- Learn and understand the inspection process and its characteristics
- Identify who are involved and their roles in inspection, and



# **The Review Types and Process**



### What is Fagan Inspection?

- Invented in the early '70s by Michael Fagan of IBM
  - Inspired by production engineering inspection
- A widely applicable, rigorous and formal software engineering QC technique
  - Inspection of any document when it is believed complete and ready for use
  - Find defects directly unlike testing, which happens later, and only reveals symptoms
- Related to, but distinct from, walkthroughs, technical reviews, 'buddy checking', email 'pass around' or 'postal' reviews
- One of the 'catalyst' processes...



### What is a Defect?

- Any occurrence in a work product that is incomplete, incorrect, or missing.
- Any instance which a requirement is not satisfied.
- Informal synonyms: bug, fault, issue, problem.
- Non-conformance in requirements, standards, or exit criteria.
- Identified by team consensus during inspection meeting based on requirements/standards.

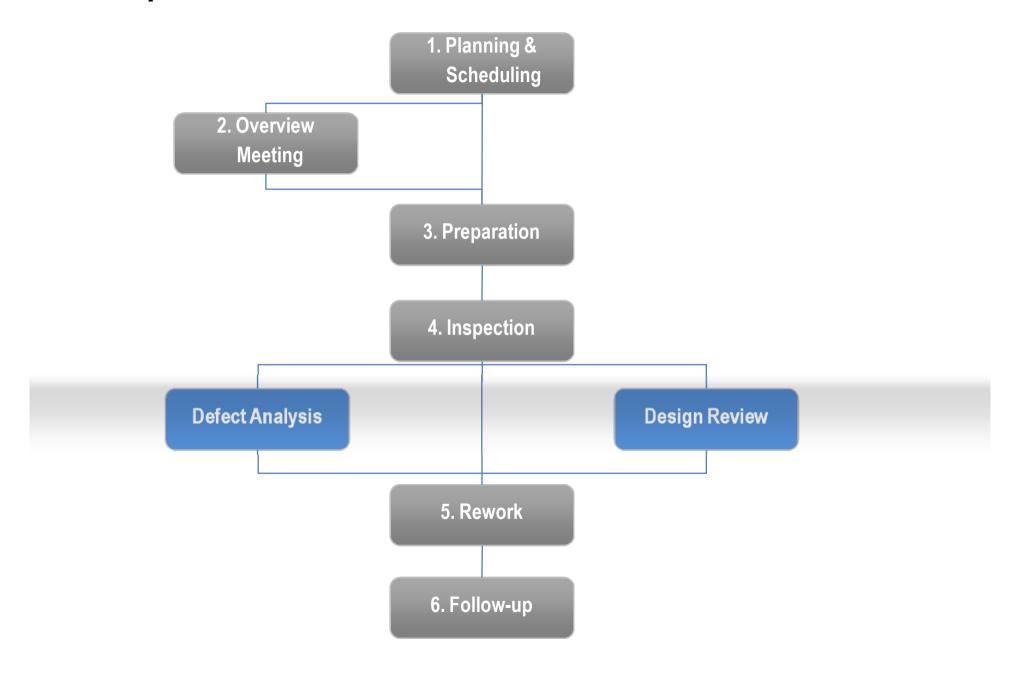


### Why Fagan Inspection?



- Very high defect detection effectiveness the single most effective software quality control
- Widely applicable to all documents developed, changed or acquired
- Can be used early in development (to requirements. docs.) and throughout development work
- Well documented track record of reduction in rework costs and defects in released software

## **The Inspection Process**



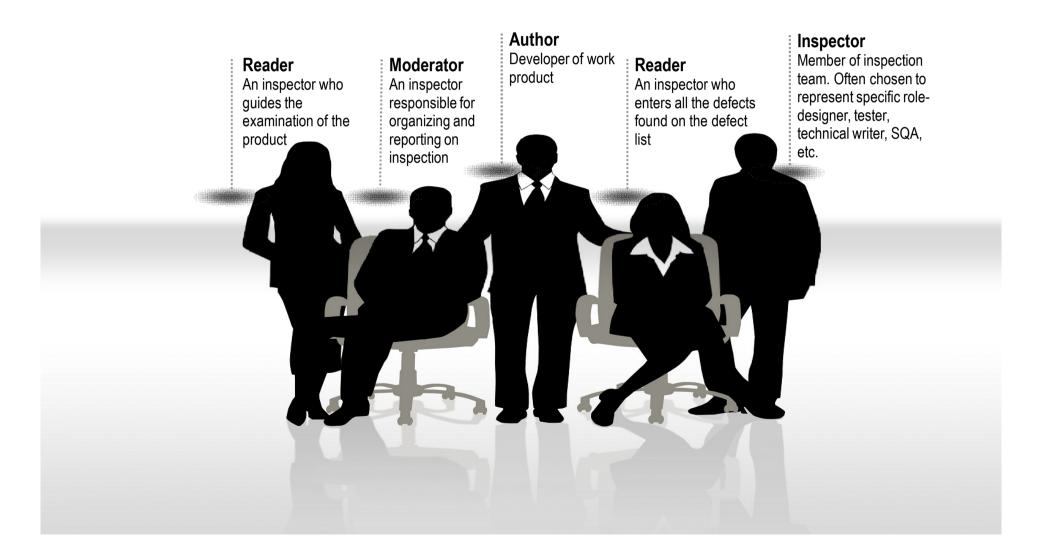
### **Inspection Characteristics**

- Budgeted, planned and scheduled
- Use a defined process
- Use knowledgeable peers...
- ... trained to perform defined inspection roles
  - Have defined entry and exit criteria
  - Use checklists and standards
  - Primary purpose is to find defects, for removal





### Who are involved?



### Why are inspections rarely used?

### • Professional Ignorance

- Not heard of them (why?)
- Assumed to be a synonym for 'review'

#### • Organizational Ignorance

- Culture works against revealing or admitting mistakes (pass around for 'comment')
- Lack of resources and facilities

#### Difficult

Inspection is a 'precision instrument' – easily broken

#### Disappointment and Frustration

With disappointing or apparently disappointing results and outcomes

#### Benefits are intangible

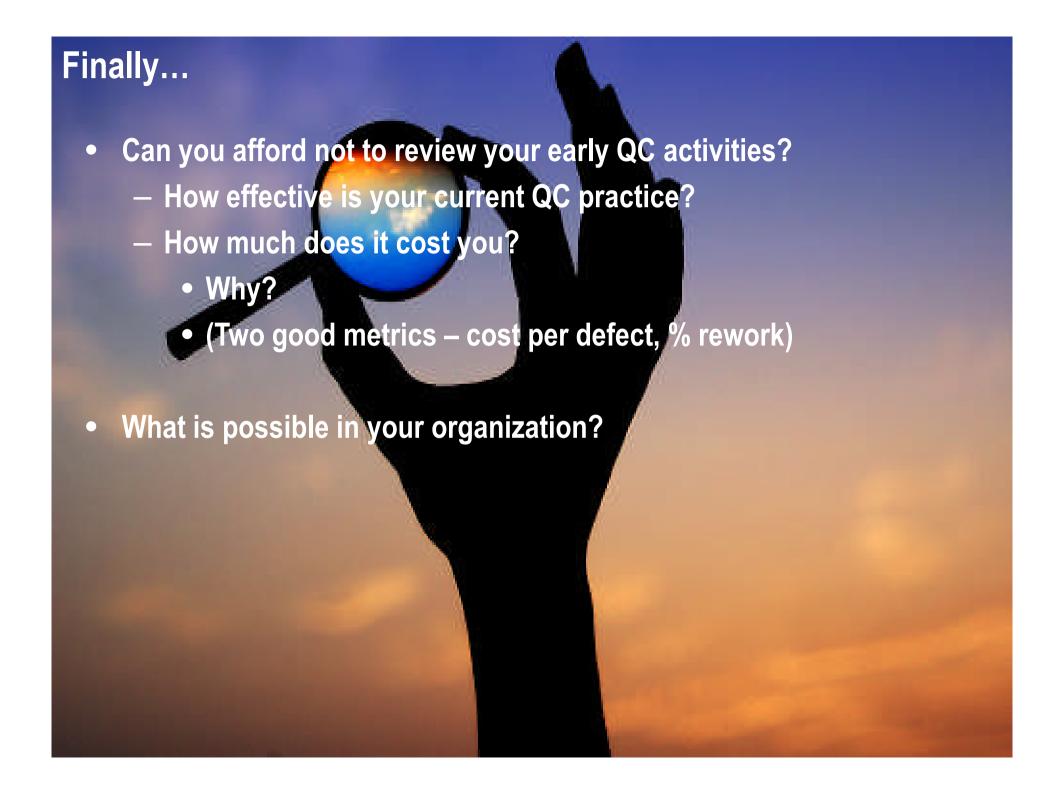
Needs analysis of results and outcomes to appreciate time and money saved



### How to make Fagan Inspection work

- Restore balance outputs in originators favor (and add value)
  - Not just defects (i.e. 'mistakes ') formally recognize, value and measure design excellence
- Begin the process as an introduction to real inspections
  - Attractive and fashionable?
  - Complex and conflicts with standard advice pilot the real standard process, then tailor when well understood
- Make the benefits tangible
  - Inspection data capture
  - Use this to provide savings predictions as part of project planning
  - Wider internal reporting and promotion







# **OUR PORTFOLIO**



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