



Software Inspections



“Testing can be used to show the presence of bugs, but not their absence!” -Edsger Dijkstra

The goal of software inspections is to uncover errors that may exist at any given stage of the development life cycle. The inspections consist of a series of formal, disciplined and low-cost reviews that allow you to maximize your performance, while minimizing the costs related to rework. In fact, it has been shown that the correction of a defect at the testing level is very difficult and expensive. If a bug is found by the customer, the impact and costs can surge exponentially. **Formal software inspections are so effective that they alone account for 80% to 95% of defects removal**, compared to a mere 30% using standard testing techniques.¹

There are many **benefits** associated with software inspections :

- **Reduction of delivery delays**
- **Minimization of errors propagation**
- **Correction of defects at the source**
- **Quality improvement of the development process**
- **Training of team members via knowledge transfer**
- **Increase of formal communication between team members**

Whether your development process is based on CMMI, Agile principles, ITIL, or whether you use no formal process at all, Qualibre Technologies consultants will accomplish the following :

- **Define measures and metrics**
- **Support your infrastructure deployment**
- **Implement a formal software inspection program**
- **Design a database to maintain, organize and control your results**



Qualibre Technologies has mastered the art of carrying out systematic, disciplined and measured inspections on product artefacts such as documented business processes, software requirements, architectural design, models, test plans and source code. Our consultants apply this method of verification at every stage of your development process, because defects can be created or injected anywhere, and at anytime, in the software's life cycle.

1. Gilb, T., Graham, D.. “Software Inspection”, Addison-Wesley, ISBN 0-201-63181-4, 1993, p.18