An Analysis of the existing Software Quality Standards

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ABSTRACT

The rapid growth in technology, the new business needs, the new business focus and new business strategies in the recent years have shifted the software industry into a new era. Some of the obvious trends, that are very visible in the IT (Information Technology) world are: shorter software development life cycle; the emergence of new software development languages and tools; the introduction of new software quality assurance (SQA) tools; a shifts in software development paradigm (such as RAD methodology), and; the emergence of new concepts like Artificial Intelligence (AI), Virtual Reality and WEB. In spite of the evolution of the software industry, the Software Quality Standards and the IT position within the firm organizational decision structure has not made much changes in parallel to match these IT evolutionary change.

These changes has substantially effected the software quality method and the IT positions within the organization decision process giving rise to 2 important questions:

1. Are the current software quality standards, namely ISO9000, SEI & SPICE, obsolete?
2. What is the suitable IT position within an organizational decision structure to meet these new challenges of IT?

This report will attempt to answer these two questions.