Mastering Software Quality Assurance: Best Practices, Tools and Techniques for Software Developers

By Murali Chemuturi

Mastering Software Quality Assurance: Best Practices, Tools and Techniques for Software Developers By Murali Chemuturi

Mastering Software Quality Assurance is a comprehensive reference on quality assurance as it pertains to software development that addresses all four dimensions of quality. It explores a process-driven approach to quality and provides the information and guidance needed for implementing a process quality model in your organization.

Key Features:

--Covers every aspect of software quality assurance, quality control, and the measurement of software quality and includes best practices, valuable tools and techniques for software developers
--Details the quality of specifications, design, construction and conformance as applicable to software development organizations from both the micro and macro view
--Offers unique insights into achieving quality at the component level and explores process quality from the standpoint of implementation rather than from the appraiser/assessor point of view
--Provides a strategic view of the ISO and CMMI models and describes necessary steps for attaining conformance to those models
--WAV offers a comprehensive tool for assistance in software testing (TestPal), a tool for increasing personal effectiveness (PET), and templates illustrated within the text that are adaptable to your own needs -- **available from the Web Added Value Download Resource Center at jrosspub.com**

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Editorial Review

Review
Outstanding! Read this book carefully since a few minutes of consideration may save you or your company millions of dollars and years of struggle in achieving business value from your software development initiatives. --**Robert C. Anderson**, Director, Process Development & Quality Assurance, Computer Aid, Inc.

Finally, a solid book dedicated to quality within software development. It should be mandatory reading for any software project manager. Every aspect of quality assurance and quality control is covered with topics dedicated to helping an organization succeed in its quality program implementation. The descriptions and benefits of the most valuable activities of software development are detailed and precise. **Mastering Software Quality Assurance** is a desk reference that experts and amateurs will refer to every day. --**Paul Laberge**, Continuous Improvement Analyst, Wolters Kluwer

From the Author
Quality Assurance (QA) is the most neglected activity in the software development industry. Most software developers think that QA means testing alone! Even testing is not always fully carried out. It is accepted by the software development industry that 100% testing is not possible. There are assessment systems which started out as quality assessment systems but decayed over a decade and a half to be certificate dispensing agencies. These are the reasons that necessitate release of a patch within three months of releasing of the product. There are books on software quality assurance but are found wanting when it comes to achieving quality in the real life.

What is more, the term "quality" itself is ill defined with more than one definition in vogue. This book discusses all current definitions and provides a comprehensive definition of "quality" as it should be.
I have covered Software QA in all its facets in this book. This book guides the reader from the evolution of the quality assurance from the artisan days to modern industry. It provides guidelines on how to achieve quality at the program level, project/product level and at the organizational level. It also provides a new method of assessing the quality of an organization. It provides many formats, templates, standards and guidelines that can be implemented in the organizations. All these are provided as a download for the purchasers of the book!
Above all, this is the first time a quantitative method is given to measure the quality of a software product delivered by a contractor along with easily locatable sources of data for computing the metric.
Set of metrics that can be used for improving the organization are provided along with the method of computing them. This book shows how to use these metrics and improve quality of the software product in the organization.
I am proud to have written this book and glad that it found a publisher (J.Ross Publishing, Inc. Fl, USA) willing to risk publishing it. The reader, unless heavily biased/prejudiced, would find great value from this book. I wrote this book from personal experience coupled with academic study of the subject after spending nearly four decades in various organizations, big and small. As Bob Anderson, one of the reviewers put it, a few minutes of time spent in reading this book, can save the organization and the country millions.

From the Back Cover
" Finally, a solid book dedicated to quality within software development. It should be mandatory reading for any software project manager. Every aspect of quality assurance and quality control is covered with topics

dedicated to helping an organization succeed in its quality program implementation. The descriptions and benefits of the most valuable activities of software development are detailed and precise.**Mastering Software Quality Assurance** is a desk reference that experts and amateurs will refer to everyday." - **Paul Laberge, Continuous Process Improvement Analyst, Wolters Kluwer**

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