

# Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing

By Rex Black

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## Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing By Rex Black

New edition of one of the most influential books on managing software and hardware testing

In this new edition of his top-selling book, Rex Black walks you through the steps necessary to manage rigorous testing programs of hardware and software. The preeminent expert in his field, Mr. Black draws upon years of experience as president of both the International and American Software Testing Qualifications boards to offer this extensive resource of all the standards, methods, and tools you'll need.

The book covers core testing concepts and thoroughly examines the best test management practices and tools of leading hardware and software vendors. Step-by-step guidelines and real-world scenarios help you follow all necessary processes and avoid mistakes.

- Producing high-quality computer hardware and software requires careful, professional testing; *Managing the Testing Process, Third Edition* explains how to achieve that by following a disciplined set of carefully managed and monitored practices and processes
- The book covers all standards, methods, and tools you need for projects large and small
- Presents the business case for testing products and reviews the author's latest test assessments
- Topics include agile testing methods, risk-based testing, IEEE standards, ISTQB certification, distributed and outsourced testing, and more
- Over 100 pages of new material and case studies have been added to this new edition

If you're responsible for managing testing in the real world, *Managing the Testing Process, Third Edition* is the valuable reference and guide you need.

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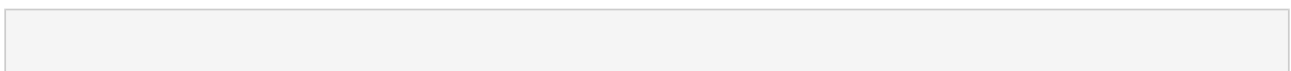
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### Editorial Review

#### Amazon.com Review

For a practical guide to software testing, readers can look to Rex Black's *Managing the Testing Process*, a compendium of real-world advice on managing software testing successfully. It is a veritable hodge-podge of sample test documents and is filled with recommendations from an old hand at test management.

Early sections examine the design of test plans, along with strategies for assessing and prioritizing risk as well as catching bugs through effective testing. Sample case studies include a network hardware device and a Java word processor.

Throughout this book, a variety of documents (including Excel spreadsheets and Access databases) are presented to get you started on your own testing projects. (Though reproduced here in truly microscopic print, all sample documents are included on the accompanying CD-ROM.) The book also looks at metrics for measuring the performance of your testing operation.

*Managing the Testing Process* shows how a bug-tracking database is the most effective model for managing the testing cycle. This book is chock-full of advice on testing management. The author also presents dozens of tips for succeeding in the software Q/A job market.

Sections on designing a lab and staffing it, including a valuable discussion on when to use consultants and when to outsource testing, provide a practical guide to today's testing management. After an introduction to working with other players in today's software organizations, a final chapter looks at managing testing across different locations.

Many developers spend time in Q/A as a stepping stone to careers in software design. And as the author points out, the job of test engineer is growing in popularity. Read this book to find out the often harsh realities of software testing along with strategies for improving the effectiveness of your software testing team. --Richard Dragan

#### From the Back Cover

Proven tips and tools for building and executing an effective test project

Earlier editions of this book have helped test managers around the world to develop essential tools and apply them to successful test project management. In this third edition of his bestseller, Rex Black shares lessons he has learned in the decade since the first edition came out and provides a thorough review of the latest tools and resources, making this book even more valuable.

A structured test operation is planned, repeatable, and documented, but preserves creativity and flexibility in all the right places. Rex Black teaches you to develop models for understanding the meaning of the myriad data points generated by testing. Then you can effectively manage what is often a confusing, chaotic, and change-ridden area of the project, building an effective and efficient test organization. You will learn about:

- Building a business case for solid testing
- Mastering Agile testing challenges, applying risk-based testing, and managing distributed and outsourced testing

- Understanding and adapting the new IEEE 829 standard
- Building a high-performance test team using skills management, training, and certification
- Building and managing an effective test organization, explained with plenty of real-world examples, exercises, and solutions

#### About the Author

Rex Black, President of RBCS, has a quarter-century of software and systems engineering experience. RBCS is a leader in software, hardware, and systems testing, with clients ranging from startups to Fortune 20 companies. Rex is the most prolific author in the field of software testing, with books that have sold tens of thousands of copies. He has presented hundreds of papers, workshops, and seminars, and given some 30 keynote speeches at conferences and events worldwide.

### Users Review

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##### **Kathy Hunnicutt:**

In this 21st century, people become competitive in each and every way. By being competitive right now, people have to do something to make them survive, being in the middle of the particular crowded place and notice by surrounding. One thing that oftentimes many people have underestimated this for a while is reading. Sure, by reading a guide your ability to survive rises then having a chance to stand than others is high. For you who want to start reading a new book, we give you this particular *Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing* book as a basic and daily reading reserve. Why, because this book is more than just a book.

##### **Martha Williams:**

The feeling that you get from *Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing* may be the more deep you dig the information that hides inside the words the more you get serious about reading it. It does not mean that this book is hard to recognize but *Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing* giving you an excitement feeling of reading. The author conveys their point in a specific way that can be understood through anyone who reads the item because the author of this publication is well-known enough. This book also makes your own vocabulary increase well. That makes it easy to understand then can go to you, both in printed or e-book style are available. We propose you for having this specific *Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing* instantly.

##### **Jack Unger:**

Is it you actually who has spare time then spend it whole day through watching television programs or just telling lies on the bed? Do you need something new? This *Managing the Testing Process: Practical Tools and Techniques for Managing Hardware and Software Testing* can be the response, oh how comes? A fresh book you know. You are therefore out of date, spending your spare time by reading in this brand new era is common not a nerd activity. So what these guides have than the others?

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