

Test Process Improvement: A step-by-step guide to structured testing

By Tim Koomen, Martin Pol

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Software testing is an essential part of software development but many organizations regard it as an uncontrollable part of the process and find it difficult to take steps to improve it. In Test Process Improvement, Tim Koomen and Martin Pol give practical suggestions for improving the testing process in a gradual and controlled manner, with realistic goals in terms of quality, lead time and costs.

The book describes and explains the Test Process Improvement (TPI) model, tried and tested by numerous professional testers, which provides a structured framework to be used either for improving an existing test process or for developing a new process from scratch. The authors use their in-depth knowledge and extensive experience to provide practical guidance and a framework that enables the reader to adapt the model for use in his/her organization.

If you are involved in testing software systems and are aiming to implement a successful and structured process, you will find this book an invaluable resource.

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Editorial Review

Amazon.com Review
Written for the reader with a little background in software engineering and test management, *Test Process Improvement* is an innovative guide to improving how your organization tests software. It's got plenty to offer any test engineer or manager.

This short yet densely packed text outlines the Test Process Improvement (TPI) model for software testing. While there are other testing models available today (like the Testing Maturity Model, or TMM), the authors suggest that TPI offers more detail than its rivals. TPI measures testing effectiveness in 20 "key areas," in such categories as test strategy, metrics, tools, and communication, plus defect and test process management.

After a short overview of the kinds of testing in use today, the book delves into each of these 20 areas in considerable detail with criteria for up to four levels of effectiveness (labeled "A" through "D"). By working through these categories, an organization can both gauge its current testing process and make it better with the book's "improvement suggestions." You'll appreciate this text most if you have some interest in software engineering. (The authors, who are Dutch, write clearly, but this is by no means light reading.) There are plenty of easy-to-digest tables and lists, which will be most practical for the busy testing professional. Other useful sections include a concise tour of testing tools and the Test Management Approach (TMap), which shows how to integrate test management into the larger process of software design.

In all, *Test Process Improvement* can give any testing engineer or manager some practical ways to work more effectively. This is a groundbreaking blueprint for improving software testing. --*Richard Dragan*

Topics covered: Overview and guide to Test Process Improvement (TPI), types of testing, pitfalls for successful testing, measuring your organization's test maturity, 20 key areas, levels, checkpoints, suggestions for improvement, implementing TPI within your organization, TPI and the project life cycle, test planning and project estimation, metrics, advantages and limits of testing tools, test and office environments for improved testing, communication, reporting, defect management, managing the test process, evaluation, low-level testing, and Test Management Approach (TMap)--a proprietary strategy for structured testing.

From the Back Cover

Software Engineering / Testing Test Process Improvement A practical step-by-step guide to structured testing Tim Koomen Martin Pol ¿If competitiveness is an issue in your market, IT will be vital, and this book will help you to deal with the problems it will bring along.¿ Henk W Broeders, Executive Board, CAP Gemini ¿I was introduced to TPI and suddenly the penny dropped...This was quite a revelation... I recommend that you try the ideas suggested in this book... use the TPI method to improve your test process.¿ Stephen K Allott, Senior Consultant, ImagoQA Ltd ¿The application of TPI enables us to raise our global testing organization to the next professional level. I am absolutely convinced that everybody using TPI in a similar way will experience the same added value.¿ Dr Hans Voorthuyzen, Global Manager Product Testing Group, Baan Software testing is an essential part of software development but many organizations regard it as an uncontrollable part of the process and find it difficult to take steps to improve it. In Test Process Improvement, Tim Koomen and Martin Pol give practical suggestions for improving the testing process in a gradual and controlled manner, with realistic goals in terms of quality, lead time and costs. The book describes and explains the Test Process Improvement (TPI) model, tried and tested by numerous professional

testers, which provides a structured framework to be used either for improving an existing test process or for developing a new process from scratch. The authors use their in-depth knowledge and extensive experience to provide practical guidance and a framework that enables the reader to adapt the model for use in his/her organization. If you are involved in testing software systems and are aiming to implement a successful and structured process, you will find this book an invaluable resource. About the authors Tim Koomen is a professional tester for IQUIP Informatica B.V. in the Netherlands, where he is a member of the R&D team covering issues such as automated testing and testfactories. He is currently advising organizations on how to improve their testing processes using the TPI model. He regularly presents at conferences and training sessions throughout Europe. Martin Pol has over 25 years of experience in structured testing, currently working as an R&D manager with responsibility for development and innovation of testing methods for IQUIP Informatica B.V. and GiTek Software N.V. in Belgium. He was involved in the development of the structured testing approach, TMap, and the creation of TPI. He is a highly regarded speaker at conferences and training courses throughout Europe and the USA, having twice chaired EuroSTAR. He recently received the European Testing Excellence Award for his contribution to the field of testing. [barcode box] Visit us on the World Wide Web at: http://www.awl-he.com/computing http://www.awl.com/cseng Back of Jacket

About the Author

Tim Koomen is a professional tester for IQUIP Informatica B.V. in the Netherlands, where he is a member of the R&D team covering issues such as automated testing and testfactories. He is currently advising organizations on how to improve their testing processes using the TPI model. He regularly presents at conferences and training sessions throughout Europe.

Martin Pol has over 25 years of experience in structured testing, currently working as CEO, senior consultant for Polteq International Testing services.

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