ADVANTAGES OF SIX SIGMA IN SOFTWARE DEVELOPMENT

- Improves Quality
- Increases Efficiency
- Enhances Customer Satisfaction
- Better Collaboration
- Cost Reduction

Six Sigma Software Development

Sebastian Brünink

Six Sigma Software Development:

  Six Sigma Software Development Christine B. Tayntor,2014-10-31 Since Six Sigma has had marked success in improving quality in other settings and since the quality of software remains poor it seems a natural evolution to apply the concepts and tools of Six Sigma to system development and the IT department Until now however there were no books available that applied these concepts to the system development p   *Six Sigma Software Development* Christine B. Tayntor,2007-03-27 Even though Six Sigma programs have successfully been implemented in practice many IT departments remain skeptical of the process or are unaware of how the tools can be used to improve system development Removing the mystique surrounding this technique Six Sigma Software Development Second Edition demonstrates how Six Sigma tools and concepts c   *Practical Support for Lean Six Sigma Software Process Definition* Susan K. Land,Douglas B. Smith,John W. Walz,2012-04-25 Practical Support for Lean Six Sigma Software Process Definition Using IEEE Software Engineering Standards addresses the task of meeting the specific documentation requirements in support of Lean Six Sigma This book provides a set of templates supporting the documentation required for basic software project control and management and covers the integration of these templates for their entire product development life cycle Find detailed documentation guidance in the form of organizational policy descriptions integrated set of deployable document templates artifacts required in support of assessment organizational delineation of process documentation   *Software Design for Six Sigma* Basem S. El-Haik,Adnan Shaout,2011-02-16 This proposal constitutes an algorithm of design applying the design for six sigma thinking tools and philosophy to software design The algorithm will also include conceptual design frameworks mathematical derivation for Six Sigma capability upfront to enable design teams to disregard concepts that are not capable upfront learning the software development cycle and saving development costs The uniqueness of this book lies in bringing all those methodologies under the umbrella of design and provide detailed description about how these methods QFD DOE the robust method FMEA Design for X Axiomatic Design TRIZ can be utilized to help quality improvement in software development what kinds of different roles those methods play in various stages of design and how to combine those methods to form a comprehensive strategy a design algorithm to tackle any quality issues in the design stage   *Software Development Patterns and Antipatterns* Capers Jones,2021-08-26 Software development has been a troubling since it first started There are seven chronic problems that have plagued it from the beginning Incomplete and ambiguous user requirements that grow by 2% per month Major cost and schedule overruns for large applications 35% higher than planned Low defect removal efficiency DRE Cancelled projects that are not completed 30% above 10 000 function points Poor quality and low reliability after the software is delivered 5 bugs per FP Breach of contract litigation against software outsource vendors Expensive maintenance and enhancement costs after delivery These are endemic problems for software executives software engineers and software customers but they are not insurmountable In Software Development Patterns and Antipatterns software

engineering and metrics pioneer Capers Jones presents technical solutions for all seven The solutions involve moving from harmful patterns of software development to effective patterns of software development The first section of the book examines common software development problems that have been observed in many companies and government agencies The data on the problems comes from consulting studies breach of contract lawsuits and the literature on major software failures This section considers the factors involved with cost overruns schedule delays canceled projects poor quality and expensive maintenance after deployment The second section shows patterns that lead to software success The data comes from actual companies The section s first chapter on Corporate Software Risk Reduction in a Fortune 500 company was based on a major telecom company whose CEO was troubled by repeated software failures The other chapters in this section deal with methods of achieving excellence as well as measures that can prove excellence to C level executives and with continuing excellence through the maintenance cycle as well as for software development   <u>Perspectives on the Future of Software Engineering</u> Jürgen Münch,Klaus Schmid,2013-06-13 The dependence on quality software in all areas of life is what makes software engineering a key discipline for today s society Thus over the last few decades it has been increasingly recognized that it is particularly important to demonstrate the value of software engineering methods in real world environments a task which is the focus of empirical software engineering One of the leading protagonists of this discipline worldwide is Prof Dr Dr h c Dieter Rombach who dedicated his entire career to empirical software engineering For his many important contributions to the field he has received numerous awards and recognitions including the U S National Science Foundation s Presidential Young Investigator Award and the Cross of the Order of Merit of the Federal Republic of Germany He is a Fellow of both the ACM and the IEEE Computer Society This book published in honor of his 60th birthday is dedicated to Dieter Rombach and his contributions to software engineering in general as well as to empirical software engineering in particular This book presents invited contributions from a number of the most internationally renowned software engineering researchers like Victor Basili Barry Boehm Manfred Broy Carlo Ghezzi Michael Jackson Leon Osterweil and of course by Dieter Rombach himself Several key experts from the Fraunhofer IESE the institute founded and led by Dieter Rombach also contributed to the book The contributions summarize some of the most important trends in software engineering today and outline a vision for the future of the field The book is structured into three main parts The first part focuses on the classical foundations of software engineering such as notations architecture and processes while the second addresses empirical software engineeringin particular as the core field of Dieter Rombach s contributions Finally the third part discusses a broad vision for the future of software engineering   **Applying Design for Six Sigma to Software and Hardware Systems** Eric Maass,Patricia D. McNair,2009-08-19 The Practical Example Rich Guide to Building Better Systems Software and Hardware with DFSS Design for Six Sigma DFSS offers engineers powerful opportunities to develop more successful systems software hardware and processes In Applying Design for Six Sigma to Software and Hardware Systems

two leading experts offer a realistic step by step process for succeeding with DFSS Their clear start to finish roadmap is designed for successfully developing complex high technology products and systems that require both software and hardware development Drawing on their unsurpassed experience leading Six Sigma at Motorola the authors cover the entire project lifecycle from business case through scheduling customer driven requirements gathering through execution They provide real world examples for applying their techniques to software alone hardware alone and systems composed of both Product developers will find proven job aids and specific guidance about what teams and team members need to do at every stage Using this book s integrated systems approach marketers software professionals and hardware developers can converge all their efforts on what really matters addressing the customer s true needs Learn how to Ensure that your entire team shares a solid understanding of customer needs Define measurable critical parameters that reflect customer requirements Thoroughly assess business case risk and opportunity in the context of product roadmaps and portfolios Prioritize development decisions and scheduling in the face of resource constraints Flow critical parameters down to quantifiable verifiable requirements for every sub process subsystem and component Use predictive engineering and advanced optimization to build products that robustly handle variations in manufacturing and usage Verify system capabilities and reliability based on pilots or early production samples Master new statistical techniques for ensuring that supply chains deliver on time with minimal inventory Choose the right DFSS tools using the authors step by step flowchart If you re an engineer involved in developing any new technology solution this book will help you reflect the real Voice of the Customer achieve better results faster and eliminate fingerpointing About the Web Site The accompanying Web site sigmaexperts com dfss provides an interactive DFSS flowchart templates exercises examples and tools *Six Sigma Software Quality Improvement* Vic Nanda,Jeffrey Robinson,2011-03-08 Proven techniques for improving software and process quality with Six Sigma This practical in depth guide explains how to apply Six Sigma to solve common product and process improvement challenges in the software and IT industry Six Sigma Software Quality Improvement covers Define Measure Analyze Improve and Control DMAIC Lean Six Sigma Design for Six Sigma DFSS and Define Measure Analyze Design and Verify DMADV Featuring more than 20 success stories from Motorola IBM Cisco Seagate Xerox Thomson Reuters TCS EMC Infosys and Convergys the book offers first hand accounts of corporate Six Sigma programs and explains how these companies are successfully leveraging Six Sigma for software process and quality improvement The success stories reveal how Motorola minimized business risk before changing business critical applications TCS improved fraud detection for a global bank Infosys improved software development productivity for a large multinational bank IBM reduced help desk escalations and overhead activities EMC improved development productivity Motorola realized significant cost avoidance by streamlining processes and project documentation Xerox achieved high speed product development Seagate reduced application downtime and improved availability to 99 99% Cisco successfully reinvented its Six Sigma program Convergys

injected Six Sigma into the company s DNA Thomson Reuters Six Sigma program gathered significant momentum in a short time Six Sigma was successfully applied in many other projects for defect reduction cycle time reduction productivity improvement and more   Innovations and Advances in Computer Sciences and Engineering Tarek Sobh,2010-03-10 Innovations and Advances in Computer Sciences and Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Innovations and Advances in Computer Sciences and Engineering includes selected papers form the conference proceedings of the International Conference on Systems Computing Sciences and Software Engineering SCSS 2008 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2008   **Computational Science and Its Applications – ICCSA 2019** Sanjay Misra,Osvaldo Gervasi,Beniamino Murgante,Elena Stankova,Vladimir Korkhov,Carmelo Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Eufemia Tarantino,2019-06-28 The six volumes LNCS 11619 11624 constitute the refereed proceedings of the 19th International Conference on Computational Science and Its Applications ICCSA 2019 held in Saint Petersburg Russia in July 2019 The 64 full papers 10 short papers and 259 workshop papers presented were carefully reviewed and selected form numerous submissions The 64 full papers are organized in the following five general tracks computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 259 workshop papers were presented at 33 workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as software engineering security artificial intelligence and blockchain technologies   **Simulation-based Lean Six-Sigma and Design for Six-Sigma** Basem El-Haik,Raid Al-Aomar,2006-10-27 This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods The systems approach to designing products and services as well as problem solving is integrated into the methods discussed   MANAGEMENT, THIRD EDITION SATYA RAJU, R.,PARTHASARATHY, A.,2018-07-25 This comprehensive text providing clear insight into the principles and practices of management with real life examples and cases now in its third edition updates and revise chapters in lights of recent advances in the area It discusses whole gamut of management beginning from its introduction evolution communication to the latest powerful and necessary tools such as QMS and Six Sigma which are used to drive quality improvement in a company KEY FEATURES Case studies at the end of each chapter with related thought provoking discussion questions Clearly labelled self explanatory diagrams and tables to support concept Review Questions Chapter Summary Glossary and List of Abbreviations WHAT IS NEW TO THIS EDITION

Introduces strategies and issues of Corporate Respect and Corporate Social Responsibilities Incorporates a new chapter on Six Sigma and revised chapters on Management and Society TQM and QMS Includes several new case studies to give hands on experience and professional orientation to the students TARGET AUDIENCE BBA MBA B Com M Com CMMI and Six Sigma Jeannine M. Siviy,M. Lynn Penn,Robert W. Stoddard,2007-12-18 In this book I have found answers to key questions and misconceptions about the relationship between Six Sigma and the Capability Maturity Model Integration CMMI Among my key takeaways is that the relationship between Six Sigma and CMMI exemplifies one of the principles of S4 IEE CMMI provides process infrastructure that is needed to support a successful Six Sigma strategy Forrest W Breyfogle III CEO Smarter Solutions Inc Finally a book that bridges the software and hardware process tool set To date there have been hardware and software engineers who for one reason or another have not communicated their process methods And so myths formed that convinced the hardware community that CMMI was only for software and likewise convinced the software community that Six Sigma was only for hardware It is both refreshing and thought provoking to dispel these myths Jack Ferguson Manager SEI Appraisal Program Software Engineering Institute CMMI and Six Sigma represent two of the best known process improvement initiatives Both are designed to enhance work quality and thereby produce business advantages for an organization It s a misconception that the two are in competition and cannot be implemented simultaneously Practitioners originally trained in either CMMI or Six Sigma are now finding that the two initiatives work remarkably well together in the pursuit of their common goal CMMI and Six Sigma Partners in Process Improvement focuses on the synergistic rather than competitive implementation of CMMI and Six Sigma with synergy translating to faster better cheaper achievement of mission success Topics range from formation of the value proposition to specific implementation tactics The authors illustrate how not taking advantage of what both initiatives have to offer puts an organization at risk of sinking time energy and money into inventing a solution that already exists Along the way they debunk a few myths about Six Sigma applications in software While the authors concentrate on the interoperability of Six Sigma and CMMI they also recognize that organizations rarely implement only these two initiatives Accordingly the discussion turns to the emerging realm of multimodel process improvement and strategies and tactics that transcend models to help organizations effectively knit together a single unified internal process standard Whether you work in the defense industry for a commercial organization or for a government agency wherever quality and efficiency matter you ll find this book to be a valuable resource for bridging process issues across domains and building an improvement strategy that succeeds **Software Engineering Best Practices** Capers Jones,2009-11-05 Proven techniques for software engineering success This in depth volume examines software engineering topics that are not covered elsewhere the question of why software engineering has developed more than 2 500 programming languages problems with traditional definitions of software quality and problems with common metrics lines of code and cost per defect that violate standard economic assumptions The book notes that a majority of new

projects are actually replacements for legacy applications illustrating that data mining for lost requirements should be a standard practice Difficult social engineering issues are also covered such as how to minimize harm from layoffs and downsizing Software Engineering Best Practices explains how to effectively plan size schedule and manage software projects of all types using solid engineering procedures It details proven methods from initial requirements through 20 years of maintenance Portions of the book have been extensively reviewed by key engineers from top companies including IBM Microsoft Unisys and Sony Manage Agile hierarchical matrix and virtual software development teams Optimize software quality using JAD OFD TSP static analysis inspections and other methods with proven success records Use high speed functional metrics to assess productivity and quality levels Plan optimal organization from small teams through more than 1 000 personnel *Six Sigma Statistics for Software Engineers* C. Ravindranath Pandian,2009-04-26 Software engineers get a quick and thorough grasp of the statistics fundamental to Six Sigma so they can radically improve software development the Six Sigma way The book shows how to quickly integrate Six Sigma into leading software engineering standards including CMM CMMI and TQM Using mathematical expressions only where essential the author demonstrates how to develop Six Sigma measurements better suited to software engineering It identifies core values in Six Sigma and expresses them in practical terms meaningful to software engineers This text also covers leadership and management needed to implement Six Sigma in a software development organization **Software Engineering** Shari Lawrence Pfleeger,2001 Pfleeger divides her study into three major sections a motivational treatise on why knowledge of software engineering is important the major steps of development and maintenance including requirements analysis and architecture and evaluation and improvement needs after delivery for future redesign and redevelopment *Software Development* ,2006 <u>Estimating Software Costs : Bringing Realism to Estimating</u> Capers Jones,2007-04-19 Deliver bug free software projects on schedule and within budget Get a clear complete understanding of how to estimate software costs schedules and quality using the real world information contained in this comprehensive volume Find out how to choose the correct hardware and software tools develop an appraisal strategy deploy tests and prototypes and produce accurate software cost estimates Plus you ll get full coverage of cutting edge estimating approaches using Java object oriented methods and reusable components Plan for and execute project phase and activity level cost estimations Estimate regression component integration and stress tests Compensate for inaccuracies in data collection calculation and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change research quality control and documentation costs Capers Jones work offers a unique contribution to the understanding of the economics of software production It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it This book is absolutely required reading for an understanding of the limitations of our technological advances Paul A Strassmann former CIO of Xerox the Department of Defense and NASA **Product Focused**

Software Process Improvement ,2004   *Embedded Systems Programming* ,1996-07

The book delves into Six Sigma Software Development. Six Sigma Software Development is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Six Sigma Software Development, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Six Sigma Software Development
   - Chapter 2: Essential Elements of Six Sigma Software Development
   - Chapter 3: Six Sigma Software Development in Everyday Life
   - Chapter 4: Six Sigma Software Development in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Six Sigma Software Development. The first chapter will explore what Six Sigma Software Development is, why Six Sigma Software Development is vital, and how to effectively learn about Six Sigma Software Development.
3. In chapter 2, the author will delve into the foundational concepts of Six Sigma Software Development. This chapter will elucidate the essential principles that must be understood to grasp Six Sigma Software Development in its entirety.
4. In chapter 3, the author will examine the practical applications of Six Sigma Software Development in daily life. This chapter will showcase real-world examples of how Six Sigma Software Development can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Six Sigma Software Development in specific contexts. The fourth chapter will explore how Six Sigma Software Development is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Six Sigma Software Development. This chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Six Sigma Software Development.

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Six Sigma Software Development Introduction

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