

ADVANTAGES OF SIX SIGMA IN SOFTWARE DEVELOPMENT



Improves Quality



Increases Efficiency



Enhances Customer
Satisfaction



Better Collaboration



Cost Reduction

Six Sigma Software Development

Basem S. El-Haik, Adnan Shaout

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

Six Sigma Software Development:

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 **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 **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 **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 *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

CMMI and Six Sigma Jeannine M. Siviya, 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 *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

Delivering Successful Projects with TSP(SM) and Six Sigma Mukesh Jain,2008-11-20 Delivering successful projects means the ability to produce high quality software within budget and on time consistently but when one mentions quality to software engineers or project managers they talk about how impossible it is to eliminate defects from software This assumption is passed on and on until it becomes accepted wisdom with the power of a self fulfilling prophecy And when a project fails to arrive on time or up to standards team members will turn on each other The project got delayed because the engineers did a poor job in development or too much was promised upfront for this short of a timeline In *Delivering Successful Projects with TSPSM and Six Sigma A Practical Guide to Implementing Team Software ProcessSM* you will learn how to effectively manage the development of a software project and deliver it in line with customer expectations This refreshing volume Offers real world case studies about the author s experience at Microsoft successfully implementing TSP to achieve higher quality software Empowers software developers to take responsibility for project management Explains how Six Sigma and TSP combined can dramatically reduce software defects By applying these principles put forth by one of the most respected names in software development your software team will learn how to function as a team and turn out products where zero defects and on time delivery are the norm **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

Software Quality Assurance Ivan Mistrik, Richard M Soley, Nour Ali, John Grundy, Bedir Tekinerdogan, 2015-10-12 Software Quality Assurance in Large Scale and Complex Software intensive Systems presents novel and high quality research related approaches that relate the quality of software architecture to system requirements system architecture and enterprise architecture or software testing Modern software has become complex and adaptable due to the emergence of globalization and new software technologies devices and networks These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today and tomorrow s adaptive context sensitive and highly diverse applications This edited volume presents state of the art techniques methodologies tools best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice Each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice Topics of interest include but are not limited to quality attributes of system software architectures aligning enterprise system and software architecture from the point of view of total quality design decisions and their influence on the quality of system software architecture methods and processes for evaluating architecture quality quality assessment of legacy systems and third party applications lessons learned and empirical validation of theories and frameworks on architectural quality empirical validation and testing for assessing architecture quality Focused on quality assurance at all levels of software design and development Covers domain specific software quality assurance issues e g for cloud mobile security context sensitive mash up and autonomic systems Explains likely trade offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex adaptive

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