SIX SIGMA ROAD MAP

Define — Build Project from Nonconformance, Feedback & Audits

Measure — Collect Measurements

Analyze — Analyze Processes Online (OLAP)

Improve/Design — Correct, Design, Train & Document

Control/Verify — Monitor Live Dashboard

SIX SIGMA Improvement
- Define
- Measure
- Analyze
- Improve
- Control

SIX SIGMA Design (DFSS)
- Define
- Measure
- Analyze
- Design
- Verify

Six Sigma Software Development

Susan K. Land,Douglas B. Smith,John W. Walz

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,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 *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 *The Art of Lean Software Development* Curt Hibbs,Steve Jewett,Mike Sullivan,2009-01-15 This succinct book explains how you can apply the practices of Lean software development to dramatically increase productivity and quality Based on techniques that revolutionized Japanese manufacturing Lean principles are being applied successfully to product design engineering the supply chain and now software development With The Art of Lean Software Development you ll learn how to adopt Lean practices one at a time rather than taking on the entire methodology at once As you master each practice you ll see significant measurable results With this book you will Understand Lean s origins from Japanese industries and how it applies to software development Learn the Lean software development principles and the five most important practices in detail Distinguish between the Lean and Agile methodologies

and understand their similarities and differences Determine which Lean principles you should adopt first and how you can gradually incorporate more of the methodology into your process Review hands on practices including descriptions benefits trade offs and roadblocks Learn how to sell these principles to management The Art of Lean Software Development is ideal for busy people who want to improve the development process but can t afford the disruption of a sudden and complete transformation The Lean approach has been yielding dramatic results for decades and with this book you can make incremental changes that will produce immediate benefits This book presents Lean practices in a clear and concise manner so readers are motivated to make their software more reliable and less costly to maintain I recommend it to anyone looking for an easy to follow guide to transform how the developer views the process of writing good software Bryan Wells Boeing Intelligence Security Sytems Mission System If you re new to Lean software development and you re not quite sure where to start this book will help get your development process going in the right direction one step at a time John McClenning software development lead Aclara   *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   *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   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   Innovations and Advances in Computer Sciences and Engineering Tarek Sobh,2010-03-10 Innovations and Advances in Computer Sciences and

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Software Engineering Research, Management and Applications Roger Lee,2014-11-01 This edited book presents scientific results of the 12th International Conference on Software Engineering Artificial Intelligence Research Management and Applications SERA 2014 held on August 31 September 4 2014 in Kitakyushu Japan The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way Research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them This publication captures 17 of the conference s most promising papers *Software Design and Development: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions Software Design and Development Concepts Methodologies Tools and Applications brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems *Software Development Patterns and Antipatterns* Capers Jones,2021-08-27 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 Engineering Foundations** Yingxu Wang,2007-08-09 A groundbreaking book in this field Software Engineering Foundations A Software Science Perspective integrates the latest research methodologies and their applications into a unified theoretical framework Based on the author s 30 years of experience it examines a wide range of underlying theories from philosophy cognitive informatics denota Outsourcing Software Development Offshore Tandy Gold,2004-11-15 In Offshore Software Development Making It Work hands on managers of Offshore solutions help you answer these questions What is Offshore and why is it an IT imperative What do you need to do to successfully evaluate an Offshore solution How do you avoid common pitfalls How do you confront security an *Maximizing ROI on Software Development* Vijay Sikka,2004-10-28 Maximizing ROI on Software Development explains how to execute best quality software development and testing while maximizing business value It discusses Applied ROI in the context of methodologies such as Agile and Extreme Programming and traditional methodologies including Six Sigma the Capability Maturity Model CMM Total Cost of Ownershi *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 and context critical systems   Perspectives on the Future of Software Engineering 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   **Strategic Software Engineering** Fadi P. Deek,James A. M. McHugh,Osama M. Eljabiri,2005-05-26 The pervasiveness of software in business makes it crucial that software engineers and developers understand how software development impacts an entire organization Strategic Software Engineering An Interdisciplinary Approach presents software engineering as a strategic business oriented interdisciplinary endeavor rather than simply a technica   **Software Engineering Quality Practices** Ronald Kirk Kandt,2005-11-01 Learn how to attract and keep successful software professionals Software Engineering Quality Practices describes how software engineers and the managers that supervise them can develop quality software in an effective efficient and professional manner This volume conveys practical advice quickly and clearly while avoiding the dogma that surr   **Agile Management for Software Engineering** David J. Anderson,2003-09-17 A breakthrough approach to managing agile software development Agile methods might just be the alternative to outsourcing However agile development must scale in scope and discipline to be acceptable in the boardrooms of the Fortune 1000 In Agile

Management for Software Engineering David J Anderson shows managers how to apply management science to gain the full business benefits of agility through application of the focused approach taught by Eli Goldratt in his Theory of Constraints Whether you re using XP Scrum FDD or another agile approach you ll learn how to develop management discipline for all phases of the engineering process implement realistic financial and production metrics and focus on building software that delivers maximum customer value and outstanding business results Coverage includes Making the business case for agile methods practical tools and disciplines How to choose an agile method for your next project Breakthrough application of Critical Chain Project Management and constraint driven control of the flow of value Defines the four new roles for the agile manager in software projects and competitive IT organizations Whether you re a development manager project manager team leader or senior IT executive this book will help you achieve all four of your most urgent challenges lower cost faster delivery improved quality and focused alignment with the business

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
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