



# Six Sigma Software Development

**Padhraic Smyth**



## **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 **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 Systems 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

**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 fingerprinting About the Web Site The accompanying Web site [sigmaexperts.com](http://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 **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 *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

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