

SaFe 4 5 Distilled: Applying The Scaled Agile Framework For Lean Software And Systems Engineering

Developers who have a solid pre-existing knowledge of Yii's core concepts will find this book an ideal introduction to learning to write tests using Yii 2's tools. You'll learn to create faster and more reliable applications with less time and effort.

This volume describes the methods used in the surveillance of drinking water quality in the light of the special problems of small-community supplies, particularly in developing countries, and outlines the strategies necessary to ensure that surveillance is effective.

This book constitutes the refereed proceedings of the 7th International Conference on Mathematical Methods, Models, and Architectures for Computer Network Security, MMM-ACNS 2017, held in Warsaw, Poland, in August 2017. The 12 revised full papers, 13 revised short presentations, and 3 invited papers were carefully reviewed and selected from a total of 40 submissions. The papers are organized in topical sections on Critical Infrastructure Protection and Visualization; Security and Resilience of Network Systems; Adaptive Security; Anti-malware

Techniques: Detection, Analysis, Prevention; Security of Emerging Technologies; Applied Cryptography; New Ideas and Paradigms for Security.

Tired of out-of-touch Scrum training that doesn't work? Discover practical agile delivery techniques to make your software shine. Has your excitement over Scrum led to nothing but disappointment? Have months of agile training still left your company far short of optimal efficiency? Do you feel like your leaders and developers are speaking a completely different language? Ascendle CEO Dave Todaro has lived and breathed software development for over three decades. After running successful agile teams on a daily basis, he's ready to share his insights and techniques to help your company reap the benefits of his experience. The Epic Guide to Agile: More Business Value on a Predictable Schedule with Scrum is a comprehensive guide to software-based team dynamics that both leaders and developers can understand. Unlike most agile training that doesn't work in practice, Todaro's step-by-step playbook rises above theory to save you time and money. Perfect for any sized business or level of experience, you'll get to the crux of each Scrum issue to have your team running sprints more efficiently than ever. In The Epic Guide to Agile, you'll discover: Personal examples and anecdotes to tackle problems at their source Effective ways to introduce agile and Scrum into your organization with the right pilot team The exact system to achieve productive sprint planning sessions The typical issues that can doom your product and how to conquer them The best technical environment setups to support your software project groups and much, much, more! The Epic Guide to Agile is a powerhouse manual to help any ScrumMaster or Project Manager find productivity and success. If you like real-world examples, no-nonsense teaching, and clear communication, then you'll love Dave Todaro's extraordinary and practical guidebook. Buy The Epic Guide to Agile to take your team into the Scrum age today!

WHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus Interaction

Applying the Scaled Agile FrameworkA? for Lean Software and Systems Engineering

The Toxic Substances Control Act

Agile Model-Based Systems Engineering Cookbook

Agile Contracts

The Art of Avoiding a Train Wreck: Tips and Tricks for Launching Safe Agile Release Trains

Scaling Agile with Jira Align

Today, companies know they must adapt quickly or die. They are increasingly seeking to adapt by using agile principles and practices but many are still changing too slowly, and can't sustain change. Fortunately, a growing number of enterprises have found a far more effective solution: the Scaled Agile Framework (SAFe). SAFe changes the game by integrating Agile, Lean and product development flow thinking with a new operating model that successfully coordinate works at all levels: team, program, and portfolio. SAFe helps managers learn to become lean-thinking leaders, working with teams to continuously improve their systems, and create environments where everyone flourishes. In Scaled Agile Framework (SAFe) Distilled, two SAFe pioneers show software practitioners how to use achieve higher productivity, improve the quality of their software processes, and bridge the divide between executives, managers and practitioners aligning everyone towards common goals and objectives. If you want to scale and sustain agile in the enterprise, SAFe can get you there. Scaled Agile Framework (SAFe) Distilled will help you launch it, quickly earn value from it, and grow its value with every new project."

In Large-Scale Scrum , Craig Larman and Bas Vodde offer the most direct, concise, actionable guide to reaping the full benefits of agile in distributed, global enterprises. Larman and Vodde have distilled their immense experience helping geographically distributed development organizations move to agile. Going beyond their previous books, they offer today's fastest, most focused guidance: "brass tacks" advice and field-proven best practices for achieving value fast, and achieving even more value as you move forward. Targeted to enterprise project participants and stakeholders, Large-Scale Scrum offers straight-to-the-point insights for scaling Scrum across the entire project lifecycle, from sprint planning to retrospective. Larman and Vodde help you: Implement proven Scrum frameworks for large-scale developments Scale requirements, planning, and product management Scale design and architecture Effectively manage defects and interruptions Integrate Scrum into multitiste and offshore projects Choose the right adoption strategies and organizational patterns This will be the go-to resource for enterprise stakeholders at all levels: everyone who wants to maximize the value of Scrum in large, complex projects.

"Hypoxaemia is a major contributor to child deaths that occur worldwide each year; for a child with pneumonia hypoxaemia increases the risk of death by up to 5 times. Despite its importance in virtually all types of acute severe illness, hypoxaemia is often not well recognized or well managed more so in settings where resources are limited. Oxygen therapy remains an inaccessible luxury for a large proportion of severely ill children admitted to hospitals in developing countries. This is particularly true for patients in small district hospitals, where, even if some facility for delivering oxygen is available, supplies are often unreliable and the benefits of treatment may be diminished by poorly maintained, inappropriate equipment or poorly trained staff with inadequate guidelines. Increasing awareness of these problems is likely to have considerable clinical and public health benefits in the care of severely ill children. Health workers should be able to know the clinical signs that suggest the presence of hypoxaemia and have more reliable means of detection of hypoxaemia. This be achieved through more widespread use of pulse oximetry, which is a non-invasive measure of arterial oxygen saturation. At the same time oxygen therapy must be more widely available; in many remote settings, this can be achieved by use of oxygen concentrators, which can run on regular or alternative sources of power. Having effective systems for the detection and management of hypoxaemia are vital in reducing mortality from pneumonia and other severe acute illnesses. Oxygen therapy is essential to counter hypoxaemia and many a times is the difference between life and death. This manual focuses on the availability and clinical use of oxygen therapy in children in health facilities by providing the practical aspects for health workers, biomedical engineers, and administrators. It addresses the need for appropriate detection of hypoxaemia, use of pulse oximetry, clinical use of oxygen and delivery systems and monitoring of patients on oxygen therapy. In addition, the manual addresses practical use of pulse oximetry, and oxygen concentrators and cylinders in an effort to improve oxygen systems worldwide."--Publisher's description

SAFe 4.5 Distilled: Applying the Scaled Agile Framework is the only comprehensive text on the safety of essential oils and the first review of essential oil/drug interactions and provides detailed essential oil constituent data not found in any other text. Much of the existing text has been re-written, and 80% of the text is completely new. There are 400 comprehensive essential oil profiles and almost 4000 references. There are new chapters on the respiratory system, the cardiovascular system, the urinary system, the digestive system and the nervous system. For each essential oil there is a full breakdown of constituents, and a clear categorization of hazards and risks, with recommended maximum doses and concentrations. There are also 206 Constituent Profiles. There is considerable discussion of carcinogens, the human relevance of some of the animal data, the validity of treating an essential oil as if it was a single chemical, and the arbitrary nature of uncertainty factors. There is a critique of current regulations.

Creating and Managing Successful Projects with Scrum

Bacteriological Analytical Manual

Advances in Animal Alternatives For Safety And Efficacy Testing

The Alcohol Textbook

Guidelines for the Management of Common Childhood Illnesses

7th International Conference on Mathematical Methods, Models, and Architectures for Computer Network Security, MMM-ACNS 2017, Warsaw, Poland, August 28-30, 2017, Proceedings

Scaling Software Agility

It's no secret that we are living in the Digital Age. Technology companies make up seven of the world's ten largest firms by market capitalization. And the key to their success is the key to all modern organizations. Jonathan Smart, business agility practitioner, thought leader, and coach, reveals the patterns and antipatterns that will help organizations from every industry deliver better value sooner, safer, and happier through high levels of engagement, inclusion, and empowerment. Through his decades of experience in the technology world, Smart provides business leaders with a blueprint for creating a world-class organization of the future. Through Agile and Lean ways of working, business leaders can empower teams to improve production, grow together, and create better services for their customers. These better ways of working have overflowed from the IT department to every corner of successful organizations, taking root in every industry from aerospace to accounting, insurance to shipping. This book is not about software development. It is not a book about the computer industry. This book is about applying agility across the entire organization. It's a book that will put you at the front of change and ahead of the competition.

This fourth edition of the anthrax guidelines encompasses a systematic review of the extensive new scientific literature and relevant publications up to and 2007 including all the new information that emerged in the 3-4 years after the anthrax letter events. This updated edition provides information on the disease and its importance, its etiology and ecology, and offers guidance on the detection, diagnostic, epidemiology, disinfection and decontamination, treatment and prophylaxis procedures, as well as control and surveillance processes for anthrax in humans and animals. With two rounds of a rigorous peer-review process, it is a relevant source of information for the management of anthrax in humans and animals.

The SAFe foundation -- The SAFe implementation roadmap -- The SAFe principles -- The team level -- The program level -- The planning palette -- The 2007 solution level -- The portfolio level -- Advanced topics -- Glossary.

SAFe®: The World's Leading Framework for Enterprise Agility "Phillips is continuously driving to develop high-quality software in a predictable, fast, and Agile way. SAFe addresses this primary goal, and offers their further benefits: reduced time-to-market, improved quality, stronger alignment across geographically distributed multi-disciplinary teams, and collaboration across teams to deliver meaningful value to customers with reduced cycle time." --Sundaresan Jagadeesan, SW CoE Program Director, Philips To succeed in today's adapt-or-die marketplace, businesses must be able to rapidly change the way they create and deliver value to their customers. Hundreds of the world's most successful companies—including Intel, Capital One, AstraZeneca, Cisco, and Philips—have turned to the Scaled Agile Framework® (SAFe®) to achieve agility at scale and maintain a competitive edge. SAFe® 4.5 Distilled: Applying the Scaled Agile Framework® for Lean Enterprises explains how adopting SAFe can quickly improve time to market and increase productivity, quality, and employee engagement. In this book, you will Understand the business case for SAFe: its benefits, the problems it solves, and how to apply it Get an overview of SAFe across all parts of the business: team, program, value stream, and portfolio Learn why SAFe works: the power of SAFe's Lean-Agile mindset, values, and principles Discover how systems thinking, Agile development, and Lean product development form the underlying basis for SAFe Learn how to become a Lean-Agile leader and effectively drive an enterprise-wide transformation Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Scaled Agile Framework Safe Distilled

Concepts, Connections & Skills

A practical guide to strategically scaling agile across teams, programs, and portfolios in enterprises

Engineering dependable Software using Principle-based Development

Scaled Agile Framework® for Lean Software and Systems Engineering

Report of Subcommittee on Plumbing of the Building Code Committee

Scaled Agile Framework for Lean Enterprises

This Must-have Reference Guide for SAFe® Professionals “There are a lot of methods of scale out there, but the Scaled Agile Framework is the one lighting up the world.” –Steve Elliot, Founder/CEO AgileCraft “Since beginning our Lean-Agile journey with SAFe, Vantiv has focused its strategic efforts and its execution. We have improved the predictability of product delivery while maintaining high quality, and have become even more responsive to customers—resulting in higher customer satisfaction. And just as important, employee engagement went up over the past year.” –Dave Kent, Enterprise Agile Coach. Vantiv Fully updated to include the new innovations in SAFe 4.5, the SAFe® 4.5 Reference Guide is ideal for anyone serious about learning and implementing the world’s leading framework for enterprise agility. Inside, you’ll find complete coverage of the scaledagileframework.com knowledge base, the website that thousands of the world’s largest brands turn to for building better software and systems. SAFe was developed from real-world field experiences and provides proven success patterns for implementing Lean-Agile software and systems development at enterprise scale. This book provides comprehensive guidance for work at the enterprise Portfolio, Large Solution, Program, and Team levels, including the various roles, activities, and artifacts that constitute the Framework. Education & Training Key to Success The practice of SAFe is spreading rapidly throughout the world. The majority of Fortune 100 companies have certified SAFe professionals and consultants, as do an increasing percentage of the Global 2000. Case study results—visit scaledagileframework.com/case-studies—typically include: 30—75% faster time-to-market 25—75% increase in productivity 20—50% improvements in quality 10—50% increased employee engagement Successful implementations may vary in context but share a common attribute: a workforce well trained and educated in SAFe practices. This book—along with authorized training and certification—will help you understand how to maximize the value of your role within a SAFe organization. The result is greater alignment and visibility, improved performance throughout the enterprise, and ultimately better outcomes for the business.

The Agile Model-Based Systems Engineering Cookbook distills the most relevant MBSE workflows and work products into a set of easy-to-follow recipes, complete with examples of their application. This book serves as a quick and reliable practical reference for systems engineers looking to apply agile MBSE to real-world projects.

The Must-have Reference Guide for SAFe® Practitioners “There are a lot of methods of scale out there, but the Scaled Agile Framework is the one lighting up the world.” –Steve Elliot, Founder/CEO AgileCraft “You don’t have to be perfect to start SAFe because you learn as you go—learning is built in. Before SAFe, I would not know how to help my teams but now I have many tools to enable the teams. My job is really fun and the bottom line is I have never enjoyed my job more!” –Product Manager, Fortune 500 Enterprise Captured for the first time in print, the SAFe body of knowledge is now available as a handy desktop reference to help you accomplish your mission of building better software and systems. Inside, you’ll find complete coverage of what has, until now, only been available online at scaledagileframework.com. The SAFe knowledge base was developed from real-world field experience and provides proven success patterns for implementing Lean-Agile software and systems development at enterprise scale. This book provides comprehensive guidance for work at the enterprise Portfolio, Value Stream, Program, and Team levels, including the various roles, activities, and artifacts that constitute the Framework, along with the foundational elements of values, mindset, principles, and practices. Education & Training Key to Success The practice of SAFe is spreading rapidly throughout the world. The majority of Fortune 100 U.S. companies have certified SAFe practitioners and consultants, as do an increasing percentage of the Global 1000 enterprises. Case study results—visit scaledagileframework.com/case-studies—typically include: 20—50% increase in productivity 50%+ increases in quality 30—75% faster time to market Measurable increases in employee engagement and job satisfaction With results like these, the demand from enterprises seeking SAFe expertise is accelerating at a dramatic rate. Successful implementations may vary in context, but share a common attribute: a workforce well trained and educated in SAFe practices. This book—along with authorized training and certification—will help you understand how to maximize the value of your role within a SAFe organization. The result is greater alignment, visibility, improved performance throughout the enterprise, and ultimately better outcomes for the business.

Agile Systems Engineering presents a vision of systems engineering where precise specification of requirements, structure, and behavior meet larger concerns such as safety, security, reliability, and performance in an agile engineering context. World-renown author and speaker Dr. Bruce Powel Douglass incorporates agile methods and model-based systems engineering (MBSE) to define the properties of entire systems while avoiding errors that can occur when using traditional textual specifications. Dr. Douglass covers the lifecycle of systems development, including requirements, analysis, design, and the handoff to specific engineering disciplines. Throughout, Dr. Douglass couples agile methods with SysML and MBSE to arm system engineers with the conceptual and methodological tools they need to avoid specification defects and improve system quality while simultaneously reducing the effort and cost of systems engineering. Identifies how the concepts and techniques of agile methods can be effectively applied in systems engineering context Shows how to perform model-based functional analysis and tie these analyses back to system requirements and stakeholder needs, and forward to system architecture and interface definition Provides a means by which the quality and correctness of systems engineering data can be assured (before the entire system is built!) Explains agile system architectural specification and allocation of functionality to system components Details how to transition engineering specification data to downstream engineers with no loss of fidelity Includes detailed examples from across industries taken through their stages, including the “Waldo” industrial exoskeleton as a complex system

The Nexus Framework for Scaling Scrum

Anthrax in Humans and Animals

Learning YJi Testing

Antipatterns and Patterns for Business Agility

Computer Network Security

Guidelines for Drinking-water Quality

SAFe® 4.0 Reference Guide

Take a fresh, new approach to nursing fundamentals that teaches students how to think, learn, and do while they make the “connections” each step of the way.

Summarizes core information for quick reference in the workplace, using tables and checklists wherever possible. Essential reading for safety officers, company managers, engineers, transport personnel, waste disposal personnel, environmental health officers, trainees on industrial training courses and engineering students. This book provides concise and clear explanation and look-up data on properties, exposure limits, flashpoints, monitoring techniques, personal protection and a host of other parameters and requirements relating to compliance with designated safe practice, control of hazards to people’s health and limitation of impact on the environment. The book caters for the multitude of companies, officials and public and private employees who must comply with the regulations governing the use, storage, handling, transport and disposal of hazardous substances. Reference is made throughout to source documents and standards, and a Bibliography provides guidance to sources of wider specialized information. Dr Phillip Carson is Safety Liaison and QA Manager at the Unilever Research Laboratory at Port Sunlight. He is a member of the Institution of Occupational Safety and Health, of the Institution of Chemical Engineers’ Loss Prevention Panel and of the Chemical Industries Association’s ‘Exposure Limits Task Force’ and ‘Health Advisory Group’. Dr Clive Mumford is a Senior Lecturer in Chemical Engineering at the University of Aston and a consultant.

He lectures on several courses of the Certificate and Diploma of the National Examining Board in Occupational Safety and Health. [Given 5 star rating] - Occupational Safety & Health, July 1994 - Loss Prevention Bulletin, April 1994 - Journal of Hazardous Materials, November 1994 - Process Safety & Environmental Prot., November 1994

The definitive and essential source of reference for all laboratories involved in the analysis of human semen.

Accelerate business value delivery with Jira Align, the enterprise agile planning platform, by connecting strategy with execution to maximize outcomes Key FeaturesImprove coordination and transparency between multiple programs, products, and business portfoliosIncrease customer satisfaction by responding quickly to ever-evolving customer needsDeliver higher quality products faster and more predictably with real-time insights and OKR trackingBook Description Jira Align is a platform purpose-built for enterprises to connect strategy with execution and drive transparency, consistency, and predictability at all levels of scale. The platform supports business value delivery in agile frameworks such as LeSS, DAD, and SAFe. It also caters to organizations that mix agile with waterfall to support scaled bimodal delivery. Starting with an introduction to the platform and its features, this book takes you through the foundational building blocks of Jira Align. You’ll learn how an organization can benefit from implementing Jira Align and understand how to connect dimensions such as people, work, time, and outcomes. The book takes you through the typical steps for implementing Jira Align for maximizing outcomes and helps you solve common team, program, and portfolio-level challenges by enhancing visibility, tracking dependencies and risks, and using reports for real-time, distributed decision making. Throughout the book, you’ll explore features such as remote agile ceremonies, live roadmaps, and objectives and key results (OKRs). You’ll also get to grips with lean portfolio management, financial reporting, and using the program board for planning and execution. By the end of this book, you’ll be well versed in the key features of Jira Align and be able to leverage them to support all levels of agile at scale. What you will learnUnderstand Jira Align’s key factors for successFind out how you can connect people, work, time, and outcomes with Jira AlignNavigate and collaborate in Jira AlignScale team agility to the portfolio and enterpriseDelve into planning and execution, including roadmaps and predictability metricsImplement lean portfolio management and OKRsGet to grips with handling bimodal and hybrid deliveryEnable advanced data security and analytics in Jira AlignWho this book is for This book is for portfolio managers, program managers, product managers, product owners, executives, release train engineers, and scrum masters who want to empower their teams to deliver the right things at the right time and quickly respond to changes in the market. Familiarity with agile frameworks and Jira Software is necessary; the book will teach you the rest.

Sooner Safer Happier

SAFe 4.5 Reference Guide

More Business Value on a Predictable Schedule with Scrum

Recommended Minimum Requirements for Plumbing

Hazardous Chemicals Handbook

Pocket Book of Hospital Care for Children

Project to Product

“Companies have been implementing large agile projects for a number of years, but the ‘stigma’ of ‘agile only works for small projects’ continues to be a frequent barrier for newcomers and a rallying cry for agile critics. What has been missing from the agile literature is a solid, practical book on the specifics of developing large projects in an agile way. Dean Leffingwell’s book Scaling Software Agility fills this gap admirably. It offers a practical guide to large project issues such as architecture, requirements development, multi-level release planning, and team organization. Leffingwell’s book is a necessary guide for large projects and large organizations making the transition to agile development.” –Jim Highsmith, director, Agile Practice, Cutter Consortium, author of Agile Project Management “There’s tension between building software fast and delivering software that lasts, between being ultra-responsive to changes in the market and maintaining a degree of stability. In his latest work, Scaling Software Agility, Dean Leffingwell shows how to achieve a pragmatic balance among these forces. Leffingwell’s observations of the problem, his advice on the solution, and his description of the resulting best practices come from experience: he’s been there, done that, and has seen what’s worked.” –Grady Booch, IBM Fellow Agile development practices, while still controversial in some circles, offer undeniable benefits: faster time to market, better responsiveness to changing customer requirements, and higher quality. However, agile practices have been defined and recommended primarily to small teams. In Scaling Software Agility, Dean Leffingwell describes how agile methods can be applied to enterprise-class development. Part I provides an overview of the most common and effective agile methods. Part II describes seven best practices of agility that natively scale to the enterprise level. Part III describes an additional set of seven organizational capabilities that companies can master to achieve the full benefits of software agility on an enterprise scale. This book is invaluable to software developers, testers and QA personnel, managers and team leads, as well as to executives of software organizations whose objective is to increase the quality and productivity of the software development process but who are faced with all the challenges of developing software on an enterprise scale.

Delve deep into the various technical practices, principles, and values of Agile. Key FeaturesDiscover the essence of Agile software development and the key principles of software designExplore the fundamental practices of Agile working, including test-driven development (TDD), refactoring, pair programming, and continuous integrationLearn and apply the four elements of simple designBook Description The number of popular technical practices has grown exponentially in the last few years. Learning the common fundamental software development practices can help you become a better programmer. This book uses the term Agile as a wide umbrella and covers Agile principles and practices, as well as most methodologies associated with it. You’ll begin by discovering how driver-navigator, chess clock, and other techniques used in the pair programming approach introduce discipline while writing code. You’ll then learn to safely change the design of your code using refactoring. While learning these techniques, you’ll also explore various best practices to write efficient tests. The concluding chapters of the book delve deep into the SOLID principles – the five design principles that you can use to make your software more understandable, flexible and maintainable. By the end of the book, you will have discovered new ideas for improving your software design skills, the relationship within your team, and the way your business works. What you will learnLearn the red, green, refactor cycle of classic TDD and practice the best habits such as the rule of 3, triangulation, object calisthenics, and moreRefactor using parallel change and improve legacy code with characterization tests, approval tests, and Golden MasterUse code smells as feedback to improve your designLearn the double cycle of ATDD and the outside-in mindset using mocks and stubs correctly in your testsUnderstand how Coupling, Cohesion, Connaissance, SOLID principles, and code smells are all relatedImprove the understanding of your business domain using BDD and other principles for “doing the right thing, not only the thing right”Who this book is for This book is designed for software developers looking to improve their technical practices. Software coaches may also find it helpful as a teaching reference manual. This is not a beginner’s book on how to program. You must be comfortable with at least one programming language and must be able to write unit tests using any unit testing framework.

Presents up-to-date concepts and approaches to the theory and practice of alternatives to animal testing and promotes technology transfer. The text addresses some of the ramifications of the National Institutes of Health Revitalization Act of 1993 which instructs the NIH to fund replacement, reduction and refinement alternatives. It also describes

Improve and Accelerate Software Delivery for Large, Distributed, Complex Projects The Nexus Framework is the simplest, most effective approach to applying Scrum at scale across multiple teams, sites, and time zones. Created by Scrum.org’s pioneering Scrum training and certification organization founded by Scrum co-creator Ken Schwaber–Nexus draws on decades of experience to address the unique challenges teams face in coming together, sharing work, and managing and minimizing dependencies. The Nexus® Framework for Scaling Scrum is a concise book that shows how Nexus helps teams to deliver a complex, multi-platform, software-based product in short, frequent cycles, without sacrificing consistency or quality, and without adding unnecessary complexity or straying from Scrum’s core principles. Using an extended case study, the authors illustrate how Nexus helps teams solve common scaling challenges like reducing cross-team dependencies, preserving team self-organization and transparency, and ensuring accountability. Understand the challenges of delivering working, integrated product increments with multiple teams, and how Nexus addresses them Form a Nexus around a new or existing product and learn how that Nexus sets goals and plans its work Run Sprints within a Nexus, provide transparency into progress, conduct effective Nexus Sprint reviews, and use Nexus Sprint Retrospectives to continuously improve Overcome the distributed team collaboration challenges

Large-Scale Scrum

Lean Requirements Practices for Teams, Programs, and the Enterprise

Acceptable Methods, Techniques, and Practices

A Practical Guide to Scaling Agile in the Enterprise

Safety and Security of Cyber-Physical Systems

The Epic Guide to Agile

Agile Technical Practices Distilled

Cyber-physical systems (CPS) consist of software-controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators. A CPS has, therefore, two parts: The cyber part implementing most of the functionality and the physical part, i.e., the real world. Typical examples of CPS ’s are a water treatment plant, an unmanned aerial vehicle, and a heart pacemaker. Because most of the functionality is implemented in software, the software is of crucial importance. The software determines the functionality and many CPS properties, such as safety, security, performance, real-time behavior, etc. Therefore, avoiding safety accidents and security incidents in the CPS requires highly dependable software. Methodology Today, many methodologies for developing safe and secure software are in use. As software engineering slowly becomes disciplined and mature, generally accepted construction principles have emerged. This monograph advocates principle-based engineering for the development and operation of dependable software. No new development process is suggested, but integrating security and safety principles into existing development processes is demonstrated. Safety and Security Principles At the core of this monograph are the engineering principles. A total of 62 principles are introduced and catalogized into five categories: Business & organization, general principles, safety, security, and risk management principles. The principles are rigorous, teachable, and enforceable. The terminology used is precisely defined. The material is supported by numerous examples and enriched by illustrative quotes from celebrities in the field. Final Words «In a cyber-physical system ’s safety and security, any compromise is a planned disaster» Audience First, this monograph is for organizations that want to improve their methodologies to build safe and secure software for mission-critical cyber-physical systems. Second, the material is suitable for a two-semester, 4 hours/week, advanced computer science lecture at a Technical University, Austria and Switzerland.

“We are making progress towards understanding and managing software requirements, and Dean provides them in this book. He draws ideas from three very useful intellectual pools: classical management practices, Agile methods, and lean product development. By combining the strengths of these three approaches, he has produced something that works better than any one in isolation. ” –From the Foreword by Don Reinertsen, President of Reimertsen & Associates; author of Managing the Design Factory; and leading expert on rapid product development Effective requirements discovery and analysis is a critical best practice for serious application development. Until now, however, requirements and Agile methods have rarely coexisted peacefully. For many enterprises considering Agile approaches, the absence of effective and scalable Agile requirements processes has been a showstopper for Agile adoption. In Agile Software Requirements, Dean Leffingwell shows exactly how to create effective requirements in Agile environments. Part I presents the “big picture” of Agile requirements in the enterprise, and describes an overall process model for Agile requirements at the project team, program, and portfolio levels Part II describes a simple and lightweight, yet comprehensive model that Agile project teams can use to manage requirements Part III shows how to develop Agile requirements for complex systems that require the cooperation of multiple teams Part IV guides enterprises in developing Agile requirements for ever-larger “ systems of systems.” and product portfolios This book will help you leverage the benefits of Agile without sacrificing the value of effective requirements discovery and analysis. You ’ll find proven solutions you can apply right now—whether you ’re a software developer or tester, executive, project/program manager, architect, or team leader.

In The ART of Avoiding a Train Wreck, Em and Adrienne share their “ trade secrets ” for launching and operating powerful and effective Agile Release Trains. There’s a lot at stake when launching an Agile Release Train. When taking on an Enterprise Lean-Agile Transformation you only get one shot at a first impression. Runaway trains are expensive. Money gets wasted, time gets lost and the reputational damage can take years to repair. Going well beyond the standard SAFe training, this book deep dives into the practical tips and tricks that only over 15 years of combined real world experience can teach. You will learn how to get a ticket onto the SAFe railway, load the cargo on your train, set the timetable, SAFeify board and stay on the tracks. No matter your context, you are sure to find plenty of actionable ideas for launching and operating Agile Release Trains.

As applied life science progresses, becoming fully integrated into the biological, chemical, and engineering sciences, there is a growing need for expanding life sciences research techniques. Anticipating the demands of various life science disciplines, Laboratory Protocols in Applied Life Sciences explores this development. This book covers a wide spectrum of areas in the interdisciplinary fields of life sciences, pharmacy, medical and paramedical sciences, and biotechnology. It examines the principles, concepts, and every aspect of applicable techniques in these areas. Covering elementary concepts to advanced research techniques, the text analyzes data through experimentation and explains the theory behind each exercise. It presents each experiment with an introduction to the topic, concise objectives, and a list of necessary materials and reagents, and introduces step-by-step, readily feasible laboratory protocols. Focusing on the chemical characteristics of enzymes, metabolic processes, product and raw materials, and on the basic mechanisms and analytical techniques involved in life science technological transformations, this text provides information on the biological characteristics of living cells of different origin and the development of new life forms by genetic engineering techniques. It also examines product development using biological systems, including pharmaceutical, food, and beverage industries. Laboratory Protocols in Applied Life Sciences presents a nonmathematical account of the underlying principles of a variety of experimental techniques in disciplines, including: Biotechnology Analytical biochemistry Clinical biochemistry Biophysics Molecular biology Genetic engineering Bioprocess technology Industrial processes Animal Plant Microbial biology Computational biology Biosensors Each chapter is self-contained and written in a style that helps students progress from basic to advanced techniques, and eventually design and execute their own experiments in a given field of biology.

Best Practices for Large Enterprises

Aircraft Inspection and Repair

SAFe Reference Guide

Agile Software Requirements

SAFe 4. 5 Distilled

How to Survive and Thrive in the Age of Digital Disruption with the Flow Framework

Safe 5.0 Distilled: Achieving Business Agility with the Scaled Agile Framework

"The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."--Pref. p. iv.
The Pocket Book is for use by doctors nurses and other health workers who are responsible for the care of young children at the first level referral hospitals. This second edition is based on evidence from several WHO updated and published clinical guidelines. It is for use in both inpatient and outpatient care in small hospitals with basic laboratory facilities and essential medicines. In some settings these guidelines can be used in any facilities where sick children are admitted for inpatient care. The Pocket Book is one of a series of documents and tools that support the Integrated Managem.

A methodologically sophisticated, comprehensive approach to applying the Agile fixed-price contract to IT projects while maximizing customer and supplier relationships "Interesting and necessary for IT managers and IT lawyers." —Walter J. Jaburek, Dipl.-Ing., Dr. iur., Dr. techn. Approximately 50 percent of software developers use Scrum, an iterative and incremental development method for managing software projects and product or application development, in their work. The benefit of Scrum and other Agile methods is that they can address shifts in a large project that traditional managerial methods cannot. Written by pioneers and leaders in the field of Agile and Scrum, Agile Contracts is the only book dedicated exclusively to the legal, procurement, and project management considerations of Agile contracts. Providing templates, a toolbox, and examples of Agile fixed-price contracts, the book presents an alternative option to fixed-price, time-based, and supply-based contracts—reducing the risk for both the supplier and the customer with a contract that offers the possibility of flux and flexible scenarios as a project progresses. Agile Contracts features in-depth chapter coverage of: The Agile Manifesto of 2001 Agility from the perspective of procurement and the software provider The problems with traditional fixed-price contracts and time material contracts What the Agile fixed-price contract is and how it is setup Tendering based on the Agile fixed-price contract How to negotiate an Agile fixed-price contract Special guidelines for the legal framework of an Agile fixed-price contract Adaptable Scope System The Black Swan scenario Contracts and procedures for the featured methodologies Especially applicable within highly structured business organizations, Agile Contracts is a must-read for project managers, agile practitioners, procurement representatives, and IT lawyers.

As tech giants and startups disrupt every market, those who master large-scale software delivery will define the economic landscape of the 21st century, just as the masters of mass production defined the landscape in the 20th. Unfortunately, business and technology leaders are woefully ill-equipped to solve the problems posed by digital transformation. At the current rate of disruption, half of S&P 500 companies will be replaced in the next ten years. A new approach is needed. In Project to Product, Value Stream Network pioneer and technology business leader Dr. Mik Kersten introduces the Flow Framework—a new way of seeing, measuring, and managing software delivery. The Flow Framework will enable your company's evolution from project-oriented dinosaur to product-centric innovator that thrives in the Age of Software. If you're driving your organization's transformation at any level, this is the book for you.

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