Capability Maturity Model (CMM)

Level 5 Optimizing — Focus on process improvement

Level 4 Managed — Processes measured and controlled

Level 3 Defined — Processes characterized for the organization and is proactive

Level 2 Repeatable — Processes characterized for projects and is often reactive
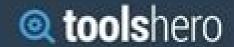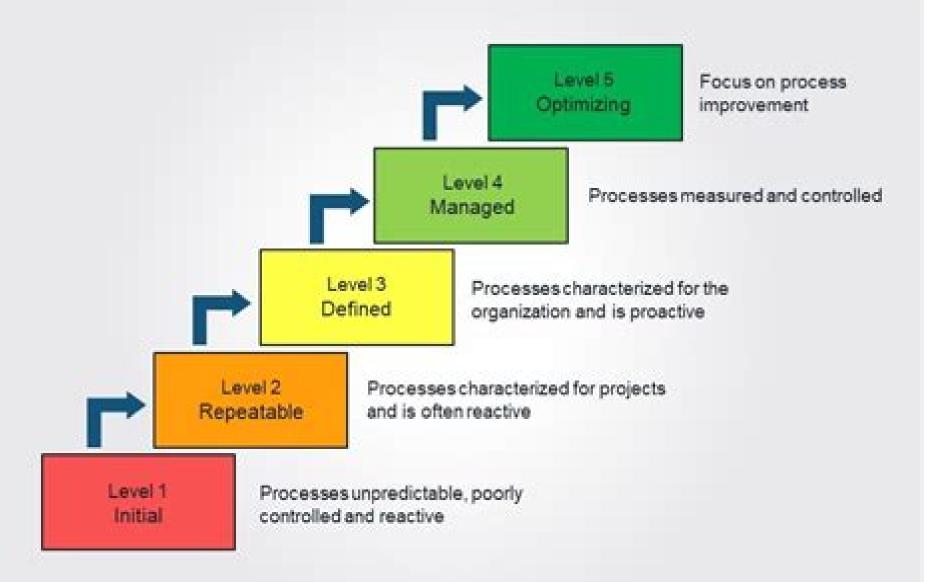
Level 1 Initial — Processes unpredictable, poorly controlled and reactive

The Capability Maturity Model Lines For Improving The Software Process

G. Gordon Schulmeyer,James I. McManus

The Capability Maturity Model Lines For Improving The Software Process:

ROI of Software Process Improvement David Rico,2004-01-01 An indispensable addition to your project management software engineering or computer science bookshelf this book illuminates and simplifies otherwise complex topics in ROI It presents extremely simple but powerful metrics models and methods for designing professional business cases and providing hard hitting economic justification It explores the most popular international methods models and standards for software process improvement The author s practical tutorial on the costs benefits and ROI of software process improvement is a soup to nuts guide that helps readers rapidly master powerful concepts Rico demystifies esoteric concepts in ROI and provides a self contained tutorial of ROI methods for novices as well as economic experts and a treasure trove of value adding economic data which is missing from popular texts The ROI of Software Process Improvement features a number of free downloads to help continue the learning process outside the pages of the book *Software Process Improvement and Management: Approaches and Tools for Practical Development* Fauzi, Shukor Sanim Mohd,Nasir, Mohd Hairul Nizam Md,Ramli, Nuraminah,Sahibuddin, Shamsul,2011-11-30 Over the past decade there has been an increase in attention and focus on the discipline of software engineering Software engineering tools and techniques have been developed to gain more predictable quality improvement results Process standards such as Capability Maturity Model Integration CMMI ISO 9000 Software Process Improvement and Capability dEtermination SPICE Agile Methodologies and others have been proposed to assist organizations to achieve more predictable results by incorporating these proven standards and procedures into their software process Software Process Improvement and Management Approaches and Tools for Practical Development offers the latest research and case studies on software engineering and development The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software process Companies can gain a decisive competitive advantage by applying these new and theoretical methodologies in real world scenarios Researchers scholars practitioners students and anyone interested in the field of software development and design should access this book as a major compendium of the latest research in the field *The Capability Maturity Model* Mark C. Paulk,1995 Principal Contributors and Editors Mark C Paulk Charles V Weber Bill Curtis Mary Beth Chrissis In every sense the CMM represents the best thinking in the field today this book is targeted at anyone involved in improving the software process including members of assessment or evaluation teams members of software engineering process groups software managers and software practitioners From the Foreword by Watts Humphrey The Capability Maturity Model for Software CMM is a framework that demonstrates the key elements of an effective software process The CMM describes an evolutionary improvement path for software development from an ad hoc immature process to a mature disciplined process in a path laid out in five levels When using the CMM software professionals in government and industry can develop and improve their ability to identify adopt and use sound management and technical practices for delivering quality software on

schedule and at a reasonable cost This book provides a description and technical overview of the CMM along with guidelines for improving software process management overall It is a sequel to Watts Humphrey s important work Managing the Software Process in that it structures the maturity framework presented in that book more formally Features Compares the CMM with ISO 9001 Provides an overview of ISO s SPICE project which is developing international standards for software process improvement and capability determination Presents a case study of IBM Houston s Space Shuttle project which is frequently referred to as being at Level 5 0201546647B04062001 *The CERT Guide to System and Network Security Practices* Julia H. Allen,2001 Showing how to improve system and network security this guide explores the practices and policies of deploying firewalls securing network servers securing desktop workstations intrusion detection response and recovery Managing Software Acquisition B. Craig Meyers,Patricia Oberndorf,2001 This title looks at strategies for reducing IT costs and improving quality including open systems and off the shelf software It explains the advantages risks and management implications of IT strategies based on these approaches Building Systems from Commercial Components Kurt C. Wallnau,Scott Hissam,Robert C. Seacord,2002 A principal source of risk in component based software design say Wallnau and two other technicians at the institute Scott A Hissam and Robert C Seacord is a lack of knowledge about how components should be integrated and how they behave when integrated To mitigate that risk they introduce several concepts among them the component ensemble as a design abstraction blackboards as a fundamental design notation and a process for exposing design risk They speak to practicing and student software engineers c Book News Inc

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practical step by step approach for improving your organization s software development process using the Software Engineering Institute s Capability Maturity Model CMM The book gives software project managers and administrators a real world understanding of software process improvement with CMM and how it can be implemented in each stage of the software development lifecycle   *IT Measurement* International Function Point Users Group,2002 With Contributions by Capers Jones Howard Rubin David Garmus Lawrence Putnam and Elizabeth Clark The accurate quantitative measurement of software quality and process performance is rapidly becoming an essential part of competition in the ever tightening software marketplace Software metrics provide insights into productivity and quality gains from improvements in skill technology and development methodology An effective metrics program helps practitioners assemble the best team select the optimal development methodology and enhance the quality of a software product In short metrics enable software developers to pursue proven successful strategies and to change course when metrics point to less than optimum quality or productivity Written by the world s leading authorities in the field IT Measurement showcases state of the art in software metrics and provides the practical knowledge that practitioners need in order to take full advantage of software metrics technology The book s collected articles offer important perspectives on the role of metrics in the development process and show how metrics directly enhance software quality and output efficiency The book explores several vital areas including Function Point Analysis project estimation and management outsourcing statistical process control and more These articles range from basic theory to the sophisticated application of metrics Specific topics covered include The expanding role of function point metrics Work output measurement for IT work units The use of metrics for tracking Enhanced estimation with metrics Metrics in outsourcing Standardization of SLOC The application of SPC to performance management Functional metrics in B2B e commerce project success Enlightening and pragmatic IT Measurement will help you gain a deeper understanding of software metrics and the ability to apply concrete measures in order to objectively evaluate and more finely shape your software development program 020174158XB02212002   **Software Development** ,2006   **Proceedings of the ...**
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