Estimating Software

Adam Trendowicz

Software Estimation Without Guessing George Dinwiddie,2019-12-19 Estimating software development often produces more angst than value, but it doesn't have to. Identify the needs behind estimate requests and determine how to meet those needs simply and easily. Choose estimation techniques based on current needs and available information, gaining benefit while reducing cost and effort. Detect bad assumptions that might sink your project if you don't adjust your plans. Discover what to do when an estimate is wrong, how to recover, and how to use that knowledge for future planning. Learn to communicate about estimates in a healthy and productive way, maximizing advantage to the organization and minimizing damage to the people. In a world where most developers hate estimation and most managers fear disappointment with the results, there is hope for both. It requires giving up some widely held misconceptions. Let go of the notion that an estimate is an estimate and estimate for the particular need you, and your organization, have. Realize that estimates have a limited shelf-life, and reestimate frequently if it's important. When reality differs from your estimate, don't lament; mine that disappointment for the gold that can be the longer-term jackpot. Estimate in comparison to past experience, by modeling the work mathematically, or a hybrid of both. Learn strategies for effective decomposition of work and aspects of the work that likely affect your estimates. Hedge your bets by comparing the results of different approaches. Find out what to do when an estimate proves wrong. And they will. They're estimates, after all. You'll discover that you can use estimates to warn you of danger so you can take appropriate action in time. Learn some crucial techniques to understand and communicate with those who need to understand. Address both the technical and sociological aspects of estimation, and you'll help your organization achieve its desired goals with less drama and more benefit. What You Need: No software needed, just your past experience and concern for the outcomes.

Software Estimation Steve McConnell,2006-02-22 Often referred to as the "black art" because of its complexity and uncertainty, software estimation is not as difficult or puzzling as people think. In fact, generating accurate estimates is straightforward—once you understand the art of creating them. In his highly anticipated book, acclaimed author Steve McConnell unravels the mystery to successful software estimation—distilling academic information and real-world experience into a practical guide for working software professionals. Instead of arcane treatises and rigid modeling techniques, this guide highlights a proven set of procedures, understandable formulas, and heuristics that individuals and development teams can apply to their projects to help achieve estimation proficiency. Discover how to: Estimate schedule and cost—or estimate the functionality that can be delivered within a given time frame Avoid common software estimation mistakes Learn estimation techniques for you, your team, and your organization * Estimate specific project activities—including development, management, and defect correction Apply estimation approaches to any type of project—small or large, agile or traditional Navigate the shark-infested political waters that surround project estimates When many corporate software projects are failing, McConnell shows you what works for successful software estimation.

Estimating Software-Intensive Systems Richard D. Stutzke,2005-04-26 Many software projects fail because their leaders don't know how to estimate, schedule, or measure them accurately. Fortunately, proven tools and techniques exist for every facet of software estimation. Estimating Software-Intensive Systems brings them together in a real-world guidebook that will help software managers, engineers, and customers immediately improve their estimates–and drive continuing improvements over time. Dick Stutzke presents here a disciplined and repeatable process that can produce accurate and complete estimates for any project, product, or

process, no matter how new or unusual. Stutzke doesn't just describe formal techniques: He offers simple, easy-to-use templates, spreadsheets, and tools you can start using today to identify and estimate product size, performance, and quality–as well as project cost, schedule, and risk reserves. Stutzke shows how to quickly get your arms around users' problems and requirements, the structure of a solution, and the process needed to deliver it. You'll learn how to choose the most appropriate estimating techniques and tools; collect accurate data, track progress, and update estimates; and recalibrate estimating models to improve estimation accuracy. Stutzke's techniques apply whether you're creating custom in-house business software, purchasing or customizing off-the-shelf technology, or constructing complex, one-of-a-kind military, industrial, or commercial systems. These techniques apply to small and large projects, and to all project life cycles–from agile to plan-driven. This book will help you plan, estimate, budget, schedule, purchase, design, build, test, deploy, operate, and maintain software-intensive systems. It explains how to size software, identify all cost components, calculate the associated costs, and set a competitive price. A separate section covers topics of interest for large projects: designing an appropriate work breakdown structure, collecting data from cost accounting systems, and using earned value measurement. You'll find updates and even more information on this book's companion web site, http://www.sw-estimation.com.

Estimating Software Costs : Bringing Realism to Estimating Capers Jones,2007-04-19 Deliver bug-free software projects on schedule and within budget Get a clear, complete understanding of how to estimate software costs, schedules, and quality using the real-world information contained in this comprehensive volume. Find out how to choose the correct hardware and software tools, develop an appraisal strategy, deploy tests and prototypes, and produce accurate software cost estimates. Plus, you'll get full coverage of cutting-edge estimating approaches using Java, object-oriented methods, and reusable components. Plan for and execute project-, phase-, and activity-level cost estimations Estimate regression, component, integration, and stress tests Compensate for inaccuracies in data collection, calculation, and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change, research, quality control, and documentation costs Capers Jones' work offers a unique contribution to the understanding of the economics of software production. It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it. This book is absolutely required reading for an understanding of the limitations of our technological advances. --Paul A. Strassmann, former CIO of Xerox, the Department of Defense, and NASA

Software Estimation Best Practices, Tools & Techniques Murali Chemuturi,2009-07-15 Almost every software project begins with the utterances, "What will this cost?" and "When will this project be done?" Once those words are spoken, project stakeholders begin to wrestle with how to produce an estimate. Accurately estimating the cost or time to complete a software project is a serious problem for many software engineers, developers and project managers who struggle with costs running double original estimates, putting their careers at risk. It is reported that nearly 50% of all software projects are shelved and that one of the major causes is poor estimation practices. If developing software for internal use, poor estimates can represent a significant drain on corporate profits. Worldwide growth in the number of companies specializing in the development of software for use by other companies is staggering. India alone has nearly 20,000 such companies. Intense competition has led to an increased demand for fixed-bid pricing in client/vendor relationships, and has made effective cost estimation even more important and, in many cases, critical to a firm's survival. There are many methods of estimation. Each method has its strengths and weaknesses, proponents and opponents. Knowing

how and which one to use on a given project is key to developing acceptable estimates for either internal or external projects.Software Estimation Best Practices, Tools, & Techniques covers all facets of software estimation. It provides a detailed explanation of the various methods for estimating software size, development effort, cost, and schedule, including a comprehensive explanation of Test Effort Estimation. Emphasizing that software estimation should be based on a well-defined process, it presents software estimation best practices and shows how to avoid common pitfalls. This guide offers direction on which methods are most appropriate for each of the different project types commonly executed in the software development space and criteria for selecting software estimation tools. This comprehensive desk reference explains software estimation from scratch to help the beginner and features advanced techniques for more experienced estimators. It details project scheduling, including resource leveling and the concept of productivity, as applicable to software estimators, demonstrating the many benefits of moving from the current macro-productivity approach to a micro-productivity approach in software estimation. Software Estimation Best Practices, Tools, & Techniques: A Complete Guide for Software Project Estimators caters to the needs of all software project stakeholders, from novice to expert. It provides the valuable guidance needed to estimate the cost and time required to complete software projects within a reasonable margin of error for effective software development.

Practical Software Project Estimation: A Toolkit for Estimating Software Development Effort & Duration Peter Hill,International Software Benchmarking Standards Group,2010-08-29 Product verifiable, defensible, and achievable software estimates Based on data collected by the International Software Benchmarking Standards Group (ISBSG), Practical Software Project Estimation explains how to accurately forecast the size, cost, and schedule of software projects. Get expert advice on generating accurate estimates, minimizing risks, and planning and managing projects. Valuable appendixes provide estimation equations, delivery rate tables, and the ISBSG Repository demographics. Verify project objectives and requirements Determine, validate, and refine software functional size Produce indicative estimates using regression equations Predict effect and duration through comparison and analogy Build estimation frameworks Perform benchmarks using the ISBSG Repository Compare IFPUG, COSMIC, and FiSMA sizing methods Peter Hill is the chief executive officer and a director of the ISBSG. He has been in the information services industry for more than 40 years and has compiled and edited five books for the ISBSG.

Estimating Software Costs Capers Jones,1998 It is estimated that around 75 per cent of software development projects run over budget. This text has been designed to help software developers accurately measure and estimate the cost of developing new software.

Practical Software Estimation M. A. Parthasarathy,2003-02-25 A clearly written book that is a useful primer for a very complicated set of topics. --Capers Jones, Chief Scientist Emeritus, Software Productivity Research LLC Practical Software Estimation brings together today's most valuable tips, techniques, and best practices for accurately estimating software project efforts, costs, and schedules. Written by a leading expert in the field, it addresses the full spectrum of real-world challenges faced by those who must develop reliable estimates. M. A. Parthasarathy draws on the immense experience of Infosys, one of the world's largest and most respected providers of IT-enabled business solutions, to bring you the only book with detailed guidance on estimating insourced and outsourced software projects, as well as projects that blend both approaches. He demonstrates how to successfully utilize Function Point (FP) methods, the industry's leading estimation model. Then, using real case studies, he systematically identifies pitfalls that can

lead to inaccurate estimates--and offers proven solutions. Coverage includes How to estimate all types of software projects, including fresh development, reengineering, and maintenance How to incorporate the impact of core project elements on estimates: scope, environment, experience, and tools FP analysis from start to finish: data and transaction functions, general system characteristics, and more FP methods for any platform or business function Innovative re-estimation methods to track progress How to quote RFPs and prepare contracts: fixed price, time/material, and project execution lifecycle models Alternatives to FP: Delphi, COCOMO II, and COSMIC-FFP How to choose the right estimation tools Practical Software Estimation is the definitive reference for anyone who must estimate software projects accurately: project and IT managers, individual developers, system designers, architects, executives, consultants, and outsourcers alike. List of Figures List of Tables Foreword Preface Acknowledgments Chapter 1: Introduction Chapter 2: Role of Estimation in Software Projects Chapter 3: A Study of Function Point Analysis Chapter 4: Data Functions Chapter 5: Transactional Functions Chapter 6: General System Characteristics Chapter 7: Size, Effort, and Scheduling of Projects Chapter 8: Estimation Flavors Chapter 9: A Sense of Where You Are Chapter 10: Tips, Tricks, and Traps Chapter 11: Insourcing versus Outsourcing Chapter 12: Key Factors in Software Contracts Chapter 13: Project Estimation and Costing Chapter 14: Other Estimation Methods Chapter 15: Estimation Tools Chapter 16: Estimation Case Study Appendix A: Reference Tables: Transaction Function Counts Appendix B: Reference Tables: Data Function Points Bibliography Index

Construction Estimating Software A Complete Guide - 2020 Edition Gerardus Blokdyk,2020-05-18 What, related to, Construction Estimating Software processes does your organization outsource? Is the Construction Estimating Software solution sustainable? Is the Construction Estimating Software process severely broken such that a re-design is necessary? Record-keeping requirements flow from the records needed as inputs, outputs, controls and for transformation of a Construction Estimating Software process, are the records needed as inputs to the Construction Estimating Software process available? How do you ensure that the Construction Estimating Software opportunity is realistic? This premium Construction Estimating Software self-assessment will make you the dependable Construction Estimating Software domain expert by revealing just what you need to know to be fluent and ready for any Construction Estimating Software challenge. How do I reduce the effort in the Construction Estimating Software work to be done to get problems solved? How can I ensure that plans of action include every Construction Estimating Software task and that every Construction Estimating Software outcome is in place? How will I save time investigating strategic and tactical options and ensuring Construction Estimating Software costs are low? How can I deliver tailored Construction Estimating Software advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Construction Estimating Software essentials are covered, from every angle: the Construction Estimating Software self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Construction Estimating Software outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Construction Estimating Software practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Construction Estimating Software are maximized with professional results. Your purchase includes access details to the Construction Estimating Software self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents

with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Construction Estimating Software Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Construction Estimating Software Standard Requirements Gerardus Blokdyk,2018-10-07 How would one define Construction estimating software leadership? How do you determine the key elements that affect Construction estimating software workforce satisfaction? how are these elements determined for different workforce groups and segments? How do we manage Construction estimating software Knowledge Management (KM)? What will be the consequences to the stakeholder (financial, reputation etc) if Construction estimating software does not go ahead or fails to deliver the objectives? How do we Improve Construction estimating software service perception, and satisfaction? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Construction estimating software investments work better. This Construction estimating software All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Construction estimating software Self-Assessment. Featuring 701 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Construction estimating software improvements can be made. In using the questions you will be better able to: - diagnose Construction estimating software projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Construction estimating software and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Construction estimating software Scorecard, you will develop a clear picture of which Construction estimating software areas need attention. Your purchase includes access details to the Construction estimating software self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Estimating Software Costs ,

Practical Project Estimation Peter R. Hill,2001 Practical project estimation: a toolkit for estimating software development effort and duration Book with CD ROM.

Agile Estimating and Planning Mike Cohn,2005-11-01 Agile Estimating and Planning is the definitive, practical guide to estimating and planning agile projects. In this book, Agile Alliance cofounder Mike Cohn discusses the philosophy of agile estimating and planning and shows you exactly how to get the job done, with real-world examples and case studies. Concepts are clearly illustrated and readers are guided, step by step, toward how to answer the following questions: What will we build? How big will it be? When must it be done? How much can I really complete by then? You will first learn what makes a good plan-and then what makes it agile. Using the techniques in Agile Estimating and Planning, you can stay agile from start to finish, saving time, conserving resources, and accomplishing more. Highlights include: Why conventional prescriptive planning fails and why agile planning works How to estimate feature size using story points and ideal days–and when to use each How and when to re-estimate How to prioritize features using both financial and nonfinancial approaches How to split large features into smaller, more manageable ones How to plan iterations and predict your team's initial rate of progress How to schedule projects that have unusually high uncertainty or schedule-related risk How to estimate projects that will be worked on by multiple teams Agile Estimating and Planning supports any agile, semiagile, or iterative process, including Scrum, XP, Feature-Driven Development, Crystal, Adaptive Software Development, DSDM, Unified Process, and many more. It will be an indispensable resource for every development manager, team leader, and team member.

Estimating Software Costs Jones,2007 This fully updated and expanded volume provides cost-estimating methods for projects using modern technologies including Java, object-oriented methods, and reusable components.

RSMeans Cost Data, + Website RSMeans,2012-04-10 RSMeans Cost Data, Student Edition provides a thorough introduction to cost estimating in a self-contained print and online package. With clear explanations and a hands-on, example-driven approach, it is the ideal reference for students and new professionals who need to learn how to perform cost estimating for building construction. Features include: Commercial and residential construction cost data in print and online formats Complete how-to guidance on the essentials of cost estimating A supplemental website with plans, specifications, problem sets, and a full sample estimate With more than 930 Location Factors in the United States and Canada, the data includes up-to-date system prices for more than 100 standard assemblies and in-place costs for thousands of alternates—making it easy to customize budget estimates and compare system costs. UNIT PRICES (organized in MasterFormat 2010) 1 General Requirements 2 Existing Conditions 3 Concrete 4 Masonry 5 Metals 6 Woods, Plastics & Composites 7 Thermal & Moisture Protection 8 Openings 9 Finishes 10 Specialties 11 Equipment 12 Furnishings 13 Special Construction 14 Conveying Equipment 21 Fire Suppression 22 Plumbing 23 Heating, Ventilating & Air Conditioning 26 Electrical 27 Communications 28 Electronic Safety & Security 31 Earthwork 32 Exterior Improvements 33 Utilities ASSEMBLIES A Substructure B Shell C Interiors D Services E Equipment & Furnishings F Special Construction G Building Site Work REFERENCE INFORMATION Equipment Rental Costs Crews Cost Indexes Reference Tables Square Foot Costs

Estimating Building Costs for the Residential and Light Commercial Construction Professional Wayne J. Del Pico,2012-04-30 How to succeed in the construction business—step-by-stepguidelines for estimating To be competitive, contractors and homebuilders need to know howto generate complete, accurate estimates for labor and materialcosts. This book guides readers through the entire

estimatingprocess, explaining in detail how to put together a reliableestimate that can be used not only for budgeting, but also fordeveloping a schedule, managing a project, dealing withcontingencies, and ultimately making a profit. Completely revised and updated to reflect the new CSIMasterFormat 2010TM system, the Second Edition of this practicalguide describes estimating techniques for each building system andhow to apply them according to the latest industry standards. Costconsiderations and quantity takeoff and pricing are included forvirtually every type of work found in residential and lightcommercial projects, from demolition, concrete, and masonry towindows and doors, siding, roofing, mechanical and electricalsystems, finish work, and site construction. Complete with many new graphics and references to professionalconstruction cost databases, the new edition provides experiencedcontractors and novices alike with essential information on: How to correctly interpret plans and specifications, reflectingupdates to contract documents since the first edition Computer estimating techniques and new estimating software forperforming quantity takeoff The best methods for conceptual estimating as well as theextremely useful topic of parametric estimating How to allocate the right amounts for profit and contingencies,and other hard-to-find professional guidance How a unit price estimate is built along with labor issues andbudgeting for subcontractor work

    Estimating Software Costs Complete Self-Assessment Guide Gerardus Blokdyk,2018-01-06 How do we Identify specific Estimating Software Costs investment and emerging trends? Does the Estimating Software Costs task fit the client's priorities? How does the organization define, manage, and improve its Estimating Software Costs processes? Will new equipment/products be required to facilitate Estimating Software Costs delivery for example is new software needed? How can the value of Estimating Software Costs be defined? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Estimating Software Costs investments work better. This Estimating Software Costs All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Estimating Software Costs Self-Assessment. Featuring 722 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Estimating Software Costs improvements can be made. In using the questions you will be better able to: - diagnose Estimating Software Costs projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Estimating Software Costs and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Estimating Software Costs Scorecard, you will develop a clear picture of which Estimating Software Costs areas need attention. Your purchase includes access details to the Estimating Software Costs self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

    Software Measurement and Estimation Linda M. Laird,M. Carol Brennan,2006-06-05 An effective, quantitative approach for

estimating and managingsoftware projects How many people do I need? When will the quality be good enough forcommercial sale? Can this really be done in two weeks? Rather thanrelying on instinct, the authors of Software Measurement andEstimation offer a new, tested approach that includes thequantitative tools, data, and knowledge needed to make soundestimations. The text begins with the foundations of measurement, identifies theappropriate metrics, and then focuses on techniques and tools forestimating the effort needed to reach a given level of quality andperformance for a software project. All the factors that impactestimations are thoroughly examined, giving you the tools needed toregularly adjust and improve your estimations to complete a projecton time, within budget, and at an expected level of quality. This text includes several features that have proven to besuccessful in making the material accessible and easy tomaster: * Simple, straightforward style and logical presentation andorganization enables you to build a solid foundation of theory andtechniques to tackle complex estimations * Examples, provided throughout the text, illustrate how to usetheory to solve real-world problems * Projects, included in each chapter, enable you to apply yournewfound knowledge and skills * Techniques for effective communication of quantitative data helpyou convey your findings and recommendations to peers andmanagement Software Measurement and Estimation: A Practical Approach allowspracticing software engineers and managers to better estimate,manage, and effectively communicate the plans and progress of theirsoftware projects. With its classroom-tested features, this is anexcellent textbook for advanced undergraduate-level and graduatestudents in computer science and software engineering. An Instructor Support FTP site is available from the Wileyeditorial department.

Software Cost Estimation, Benchmarking, and Risk Assessment Adam Trendowicz,2013-01-10 Software effort estimation is a key element of software project planning and management. Yet, in industrial practice, the important role of effort estimation is often underestimated and/or misunderstood. In this book, Adam Trendowicz presents the CoBRA method (an abbreviation for Cost Estimation, Benchmarking, and Risk Assessment) for estimating the effort required to successfully complete a software development project, which uniquely combines human judgment and measurement data in order to systematically create a custom-specific effort estimation model. CoBRA goes far beyond simply predicting the development effort; it supports project decision-makers in negotiating the project scope, managing project risks, benchmarking productivity, and directing improvement activities. To illustrate the method's practical use, the book reports several real-world cases where CoBRA was applied in various industrial contexts. These cases represent different estimation contexts in terms of software project environment, estimation objectives, and estimation constraints. This book is the result of a successful collaboration between the process management division of Fraunhofer IESE and many software companies in the field of software engineering technology transfer. It mainly addresses software practitioners who deal with planning and managing software development projects as part of their daily work, and is also of interest for students or courses specializing in software engineering or software project management.

Estimating Software Costs Complete Self-Assessment Guide Gerardus Blokdyk,2017-07-30 What role does communication play in the success or failure of a Estimating Software Costs project? Risk factors: what are the characteristics of Estimating Software Costs that make it risky? Is Estimating Software Costs dependent on the successful delivery of a current project? Is the impact that Estimating Software Costs has shown? How can the value of Estimating Software Costs be defined? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process.

Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Estimating Software Costs assessment. All the tools you need to an in-depth Estimating Software Costs Self-Assessment. Featuring 620 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Estimating Software Costs improvements can be made. In using the questions you will be better able to: - diagnose Estimating Software Costs projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Estimating Software Costs and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Estimating Software Costs Scorecard, you will develop a clear picture of which Estimating Software Costs areas need attention. Included with your purchase of the book is the Estimating Software Costs Self-Assessment downloadable resource, which contains all questions and Self-Assessment areas of this book in a ready to use Excel dashboard, including the self-assessment, graphic insights, and project planning automation - all with examples to get you started with the assessment right away. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help.

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