

Information Technology Project Management

To support the broadening spectrum of project delivery approaches, PMI is offering A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition as a bundle with its latest, the Agile Practice Guide. The PMBOK® Guide – Sixth Edition now contains detailed information about agile; while the Agile Practice Guide, created in partnership with Agile Alliance®, serves as a bridge to connect waterfall and agile. Together they are a powerful tool for project managers. The PMBOK® Guide – Sixth Edition – PMI's flagship publication has been updated to reflect the latest good practices in project management. New to the Sixth Edition, each knowledge area will contain a section entitled Approaches for Agile, Iterative and Adaptive Environments, describing how these practices integrate in project settings. It will also contain more emphasis on strategic and business knowledge—including discussion of project management business documents—and information on the PMI Talent Triangle™ and the essential skills for success in today's market. Agile Practice Guide has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

Balancing technical coverage with personnel management

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and motivation theory, this book covers "state of the science" topics like JAD, estimating, and quality management. Other topics addressed include coordinating multiple projects and tackling large projects. The book links work to be done, things to be produced, and resources required in projects.

Successful project management is increasingly vital to all organizations, driven by the demands of global competition, rapid technological growth, and faster time to market (just to name a few). For those in technology fields, project management skills are fast becoming a required core competency. And those who have mastered these skills continue to be in high demand worldwide, commanding higher salaries than those around them. But how does one extend those skills or acquire them in the first place?

Fundamentals of Technology Project Management is a great place to start. Of the hundreds of project management books on the market, precious few address the unique needs of the IT project manager. Unlike most other project management books, Fundamentals of Technology Project Management tackles the specific issues that technology professionals must face, such as understanding technology resources, managing project scope and feature creep, and meeting client expectations, among many others. Whether you're a college student, a software engineer, or an IT professional, Fundamentals of Technology Project Management will help you gain a comprehensive understanding of the project management life cycle and learn how to manage it – from first steps on through to intermediate topics (as well as some advanced ones). Author Colleen Garton explains — in easy-to-understand language— not only the what but the how of IT projects. What's more, unlike general project management books, the examples and case studies in this book are all based on technology projects, making them far more relevant to the learner. Also included is a content-rich CD-ROM loaded

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with features to make the life of any IT project manager (or the IT professional with project management responsibilities) far easier. There are document templates you can use for all phases of the project — from the initial RFP to closing reports. Plus, the author steps you through meeting agendas, status reports, cost analysis, technical specifications, and more. In addition to the document templates, you're provided with PowerPoint slides that can be modified and used for reporting progress to users and management. The continuing rise in importance of project management cannot be denied. Let this book be your guide to becoming a more effective, more efficient IT project manager. With *Fundamentals of Information Technology Project Management* you will:

- Discover the top ten reasons projects fail
- Master the five keys to project success
- Explore the six phases of the project lifecycle, step by step
- Review the documents necessary for good project management and learn how to complete them
- Understand the warning signs of a project in trouble and learn how to get it back on track
- Learn Quality Management and Quality Assurance practices in easy-to-understand terms
- Acquire practical ways to develop effective leadership and team-building skills

Although there are many books of methods and tools in different areas, few books actually give detailed tips and lessons on how to effectively set up and manage projects. Most books on project management devote all their space to specific methods. *Breakthrough Information Technology Project Management, Second Edition* provides tangible guidelines through examples and suggestions to help people participate in and manage projects more effectively. The authors' techniques and guidelines have been proven over the past 15 years in courses and counseling. This book is a valuable tool for those working in information systems, engineering, computer science, operations and production, and other

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environments involving project management.

Methods of IT Project Management (Third Edition) is built around the latest version of the Project Management Body of Knowledge (PMBOK) and covers best practices unique to the IT field. It is designed for use in graduate, advanced undergraduate, and professional IT project management courses to prepare students for success in the IT field, and to prepare them to pass the Project Management Professional (PMP) certification exam given by the Project Management Institute (PMI), the world's leading certification in the field of project management. Unlike other project management texts, Methods of IT Project Management follows the IT project life cycle, from overview and initiation to execution, control, and closing. An enterprise-scale IT project (macro-case study) runs through the entire text. Each section presents mini-cases based on the larger case and focuses on new concepts presented in each section. Readers gain practical knowledge of IT project management workflows, at scale, while building technical knowledge and skills required to pass the PMP. Mini-case studies encourage deep retention, prompt rich in-class discussion, and challenge more advanced students and professionals alike. Unique skills covered can be put directly into practice. An appendix presents practice study questions and advice on preparing for and passing the PMP exam. The revised third edition includes expanded coverage of agile system development methodologies, leadership and negotiation skills, and process maturity models. Perspectives and Techniques for Improving Information Technology Project Management discusses the variety of information systems and how it can improve project management and, likewise, how project management can affect the growth of information systems. Using new frameworks, technologies and methods, this comprehensive collection is useful for professionals, researchers and

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software developers interested in learning more on this emerging field.

Information Systems Project Management addresses project management in the context of information systems. It deals with general project management principles, with focus on the special characteristics of information systems. It is based on an earlier text, but shortened to focus on essential project management elements. This updated version presents various statistics indicating endemic problems in completing information system projects on time, within budget, at designed functionality. While successful completion of an information systems project is a challenge, there are some things that can be done to improve the probability of project success. This book reviews a number of project management tools, including, developing organizational ability to work on projects, better systems analysis and design, project estimation, and project control and termination.

The definitive work for IT professionals responsible for the management of the design, configuration, deployment, and maintenance of enterprise wide security projects. Provides specialized coverage of key project areas including Penetration Testing, Intrusion Detection and Prevention Systems, and Access Control Systems. The first and last word on managing IT security projects, this book provides the level of detail and content expertise required to competently handle highly complex security deployments. In most enterprises, be they corporate or governmental, these are generally the highest priority projects and the security of the entire business may depend on their success. * The first book devoted exclusively to managing IT security projects * Expert authors combine superb project management skills with in-depth coverage of highly complex security projects * By mastering the content in this book, managers will realise shorter schedules, fewer cost over runs, and successful

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deployments

Discover exciting behind-the-scenes opportunities and challenges in technology today with Schwalbe's unique INFORMATION TECHNOLOGY PROJECT MANAGEMENT, REVISED 7E. This one-of-a-kind book demonstrates the principles distinctive to managing information technology (IT) projects that extend well beyond standard project management requirements. No book offers more up-to-the-minute insights and software tools for IT project management success, including updates that reflect the latest PMBOK Guide, 5th edition, the global standard for managing projects and earning certification. The book weaves today's theory with successful practices for an understandable, integrated presentation that focuses on the concepts, tools, and techniques that are most effective today. INFORMATION TECHNOLOGY PROJECT MANAGEMENT is the only book to apply all ten project management knowledge areas to IT projects. You master skills in project integration, scope, time, cost, quality, human resource, communications, risk, procurement, and stakeholder management as well as all five process groups--initiating, planning, executing, monitoring and controlling, and closing. Intriguing examples from familiar companies featured in today's news, a new Agile case, opportunities with MindView software, and a new chapter on project stakeholder management further ensure you are equipped to manage information technology projects with success. The REVISED Seventh Edition has updated Appendix A for Microsoft Project 2013. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Many of the project management methods and techniques of the past are still being used today, even though the technology, management and environment have changed. Information Technology Project Management explores the

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need to employ a modern project management approach to reflect today's environment. Focusing on IT projects, Lientz provides a comprehensive examination of the project management process, from the initiation of the project through to the planning, design, execution and closing. Key Features: - Detailed coverage of PMBoK and PRINCE2 methodologies - Explores the practical aspects of project management - Extensive case studies from a variety of industries - Checklists and scorecards to measure all aspects of the project management process - Coverage of HRM and other 'soft' elements of project management - Guidelines on preventing project problems and failure Based on the authors own extensive industry and teaching practice, Information Technology Project Management is an essential resource for undergraduate, postgraduate and MBA students studying project management. Earlier editions of this work were published as Breakthrough Technology Project Management. Agile Practice Guide – First Edition has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

With the widespread transformation of information into digital form throughout society – firms and organizations are embracing this development to adopt multiple types of IT to increase internal efficiency and to achieve external visibility and effectiveness – we have now reached a position where there is data in abundance and the challenge is to manage

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and make use of it fully. This book addresses this new managerial situation, the post-digitalization era, and offers novel perspectives on managing the digital landscape. The topics span how the post-digitalization era has the potential to renew organizations, markets, and society. The chapters of the book are structured in three topical sections but can also be read individually. The chapters are structured to offer insights into the developments that take place at the intersection of the management, information systems and computer science disciplines. It features more than 60 researchers and managers as collaborating authors in 23 thought-provoking chapters. Written for scholars, researchers, students and managers from the management, information systems and computer science disciplines, the book presents a comprehensive and thought-provoking contribution on the challenges of managing organizations and engaging in global markets when tools, systems and data are abundant. This book presents a chronological approach to managing small, medium, and large projects, and is suitable for all majors, including business, engineering, healthcare, and more.

Project management (PM), as a discipline, has been undergoing an incremental inclusion of theories, techniques, and processes from fields related to organizational behavior. Parallel to this has been the dominance of Information Technology (IT) projects within the field of Project Management. Information Technology as a Facilitator of Social Processes in Project Management and Collaborative Work provides emerging research that bridges the gap between IT and project management. While highlighting the importance of Information Technology and the social process of work, the readers will learn how project management applies techniques to achieve objectives through IT projects. This book is an important resource for project managers,

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executives, IT managers, consultants, students, and educators.

Many of the project management methods and techniques of the past are still being used today, even though the technology, management and environment have changed. Information Technology Project Management explores the need to employ a modern project management approach to reflect today's environment. Focusing on IT projects, Lientz provides a comprehensive examination of the project management process, from the initiation of the project through to the planning, design, execution and closing. Key Features: • Detailed coverage of PMBoK and PRINCE2 methodologies • Explores the practical aspects of project management • Extensive case studies from a variety of industries • Checklists and scorecards to measure all aspects of the project management process • Coverage of HRM and other 'soft' elements of project management • Guidelines on preventing project problems and failure Based on the authors own extensive industry and teaching practice, Information Technology Project Management is an essential resource for undergraduate, postgraduate and MBA students studying project management. Earlier editions of this work were published as Breakthrough Technology Project Management. There are two different, interdependent components of IT that are important to a CIO: strategy, which is long-term; and tactical and operational concerns, which are short-term. Based on this distinction and its repercussions, this book clearly separates strategy from day-to-day operations and projects from operations – the two most important functions of a CIO. It starts by discussing the ideal organization of an IT department and the rationale behind it, and then goes on to debate the most pressing need – managing operations. It also explains some best industry standards and their practical implementation, and discusses project management, again

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highlighting the differences between the methodologies used in projects and those used in operations. A special chapter is devoted to the cutover of projects into operations, a critical aspect seldom discussed in detail. Other chapters touch on the management of IT portfolios, project governance, as well as agile project methodology, how it differs from the waterfall methodology, and when it is convenient to apply each. Taking the fundamental principles of IT service management and best practices in project management, the book offers a single, seamless reference for IT managers and professionals. It is highly practical, explaining how to apply these principles based on the author's extensive experience in industry.

The 5th Edition of Jack Marchewka's Information Technology Project Management focuses on how to create measurable organizational value (MOV) through IT projects. The author uses the concept of MOV, combined with his own research, to create a solid foundation for making decisions throughout the project's lifecycle. The book's integration of project management and IT concepts provides students with the tools and techniques they need to develop in this field.

Now today's managers can prepare to successfully oversee and understand information systems with Reynold's INFORMATION TECHNOLOGY FOR MANAGERS, 2E. This practical, insightful book prepares current and future managers to understand the critical business implications of information technology. A wealth of actual contemporary examples demonstrate how successful managers can apply information technology to improve their organizations. A new chapter on IT security, hands-on scenarios and practical cases give readers an opportunity to apply what they're learning. This edition's solid framework helps define the manager's important role in information technology and in working effectively with all members of the organization to

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achieve results. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Despite criticism for their serious shortcomings, maturity models are widely used within organizations. The appropriate applications of these models can lead to organizational and corporate success. *Developing Organizational Maturity for Effective Project Management* is a critical scholarly publication that explores the successes and failures of maturity models and how they can be applied competently to leadership within corporations. Featuring coverage on a wide array of topics such as project management maturity, agile maturity, and organizational performance, this publication is geared toward professionals, managers, and students seeking current research on the application of maturity models to corporate success.

Whether utilizing electronic tools for K-12 classrooms, learning management systems in higher education institutions, or training and performance improvement for business organizations, technology maintains an important aspect in the delivery of education and training in both school and non-school settings. *Cases on Educational Technology Planning, Design, and Implementation: A Project Management Perspective* provides strategies for addressing the challenges and pitfalls faced when planning, designing, and implementing learning and educational technology projects. The case studies in this publication aim to provide instructors, practitioners in K-12 and higher education, business managers as well as students interested in implementing education technology projects.

Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to

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methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors.

Understanding the key IT issues facing firms within their surrounding contexts is critical for the firm, government, and their international counterparts. In response to the dominant and pervasive bias in Information Systems (IS) research towards American and Western views, the World IT Project

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was launched and is the largest study of its kind in the field. This book captures the organizational, technological, and individual issues of IT employees across 37 countries. The book enables management and staff to formulate business and IT-related policies and strategies. Likewise, it allows policymakers, governments and vendors to address important issues at the national level as well as to respond to the needs of partners and stakeholders in other countries. It also offers current and future academic scholars a grounded understanding of the international IT environment and provides a sound foundation to launch many international IT studies.

The fourth edition of this text addresses the issue of organizational culture in more detail and gives an analysis of why information system projects fail and what can be done to make success more likely.

Recreates the experience of dozens of projects, both successful and failed, to provide a real-world context for learning.

Driven by such tools as big data, cognitive computing, new business models, and the internet of things, the overall demand for innovation is becoming more critical for competitiveness and emerging technologies. These technologies have become real alternatives for the market and offer new perspectives for modern project management applications. The Handbook of Research on Emerging Technologies for Effective Project Management is an essential research publication that proposes innovations for firms and markets through the exploration of project management principles and methods and the effective integration of knowledge and innovation. It encompasses academic and scientific

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propositions, reviews for conceptual bases, applications of theories in new market solutions, and cases of successful insertion of disruptive technologies and business models in new competitive market offers. Featuring a range of topics such as innovation management, business administration, and marketing, this book is ideal for project managers, IT specialists, software developers, executives, practitioners, managers, marketers, researchers, and industry professionals.

Until now, books available for information systems project management focused either on information technology or production and operations. Information Systems Project Management reflects new thinking about the need for balance between technology topics and production-operations issues needed to manage successful IS projects.

This volume is the latest addition to the Cases on Information Technology Series, a series which provides a collection of case studies focusing on IT implementation in organizations. The cases included in Cases on Information Technology: Lessons Learned, Volume 7 cover a variety of IT initiatives, including enterprise systems, wireless technologies, rebuilding operating systems after destruction, and implementation within non-profit organizations. Each case includes integral information regarding organizations working with IT, including key individuals involved, intelligent steps taken or perhaps overlooked, and the final project outcomes. This volume is useful to IT managers and researchers, as it describes various scenarios of IT

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implementation and also unfortunate downfalls. Using the real-life situations as facilitators for classroom discussion, professors and students will benefit as well from this collection of cases.

"This book provides a compendium of terms, definitions and explanations of concepts, processes and acronyms that reflect the growing trends, issues, and applications of technology project management"--Provided by publisher.

The purpose of this book is to shed light on the performance and personal competencies of information technology (IT) project managers in South Africa. Predictive models are built to determine what project managers consider the crucial competencies they should possess to deliver an IT project successfully. This investigation takes place in the context of poor IT project success rates globally and, in particular, in South Africa. This novel research seeks to extend the debate on project success beyond what constitutes success or failure, but seeks to find clarity in what IT project managers believe are the essential competencies in practice. This quantitative research gathered data by way of an online survey based on literature regarding the Project Management Competency Development Framework (PMCDF). The population consisted of IT project managers in South Africa. Four hundred and two respondents chose to share their insights. Through the use of descriptive and multivariate statistics, major competency factors were identified. These factors were used in structural equation modelling to build various validated predictive models. This book contributes to the

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current body of knowledge by uncovering the competencies that IT project managers consider themselves competent in. The structural equation models indicated predictors of perceived competence by IT project managers and where these perceived competencies differ from literature. Twelve managerial implications are highlighted in the final chapter that seek to draw the myriad threads together into a coherent summary. It is apparent that IT project managers do not consider the PMCDF important in its entirety, but instead choose to focus on certain competencies.

Annotation "Integrated IT Project Management: A Model-Centric Approach utilizes practical applications of real-world policies, roles and responsibilities, templates, process flows, and checklists for each of these three component processes. It shows how such processes ensure optimum utilization of people, process, and technology resources during the management and delivery of IT projects. The book provides insight into the key components of the Rational Unified Process from IBM Rational Corporation and the Project Management Body of knowledge PMBOK from the Project Management Institute (PMI) illustrating how they work together and align based on industry processing standards."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

This book focuses on providing information on project management specific for software implementations within the healthcare industry. It can be used as a beginners' guide as well as a reference for current

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project managers who might be new to software implementations. Utilizing the Project Management Institute's (PMI) methodology, the defined process groups and knowledge areas will be defined related to implementing custom and Commercial Off The Shelf (COTS) software. The Software Development Life Cycle (SDLC) is a standard for developing custom software, but can also be followed for implementing COTS applications as well. How will the system be set-up from an architecture and hardware standpoint? What environments will be needed and why? How are changes managed throughout the project and after? These questions and more will be reviewed. The differences between types of testing are defined as well as when each are utilized. Planning for the activation and measuring the success of the project and how well the strategic need has been met are key activities that are often not given the time and effort to plan as the other parts of the implementation project. This new edition updates the current content to better align with the newest version of the PMI's Project Management Body of Knowledge (PMBOK), the latest technology and concepts. In addition, this new edition includes additional chapters covering security and privacy, contract management and system selection and transition to support.

Describes ways to incorporate domain modeling into software development.

The new edition of Marchewa's Information Technology Project Management focuses on more simplified chapters, practical examples and the addition of small

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case studies to every chapter. The text contains the same level of depth and brevity that's simply written and easy to understand as previous issues. Marchewka continues to focus on how to create measurable organizational value (MOV) to create a solid foundation for making decisions throughout the project's lifecycle as well as for integrating project management and IT concepts, tools, and techniques.

In the recent past, computer programs have been used extensively to manage information technology (IT) projects. It has become almost mandatory for software development managers and students of information technology to learn how to use computer software to manage projects using computer software. *Computer Support for Successful Project Management: Using MS Project 2016 with Information Technology Projects* is a book intended to help IT management professionals and students, in using popular software MS-Project. Although there are many books on MS-Project, there are very few that cover the subject from the IT managers' perspective. This book uses guided examples from the IT sector. Most of the relevant project management terminology, concepts, and key processes are discussed, based on the standards of the Project Management Institute. This book helps software development project managers to easily relate with the projects they execute in their day-to-day life. The author includes advanced topics like earned value analysis and multiple project management and discusses agile methodology as well as how MS-Project facilitates agile project management. Readers will learn how a tool like

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MS-Project can be used for processes related to risk and quality, in addition to meeting project objectives like scope, time, and cost. This book helps you to transform yourself from an IT professional to an IT project manager.

Internet of Things (IoT) products and cyber-physical systems (CPS) are being utilized in almost every discipline and there continues to be significant increases in spending on design, development, and deployment of IoT applications and analytics within every domain, from our homes, schools, government, and industry. This practical text provides an introduction to IoT that can be understood by every engineering discipline and discusses detailed applications of IoT. Developed to help engineers navigate this increasingly important and cross-disciplinary topic, this work: Offers research-based examples and case studies to facilitate the understanding of each IoT primitive Highlights IoT's connection to blockchain Provides and understanding of benefits and challenges of IoT and its importance to a variety of engineering disciplines Written to be accessible to non-experts in the subject, What Every Engineer Should Know About the Internet of Things communicates the importance of this technology and how it can support and challenge all interrelated actors as well as all involved assets across many domains. A Proven, Integrated Healthcare Information Technology Management Solution Co-written by a certified Project Management Professional and an M.D., Project Management for Healthcare Information Technology presents an effective methodology that encompasses

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standards and best practices from project management, information technology management, and change management for a streamlined transition to digital medicine. Each management discipline is examined in detail and defined as a set of knowledge areas. The book then describes the core processes that take place within each knowledge area in the initiating, planning, executing, controlling, and closing stages of a project. Real-world examples from healthcare information technology project leaders identify how the integrated approach presented in this book leads to successful project implementations. Coverage Includes: Integrating project, information technology, and change management methodologies PMBOK Guide process groups--initiating, planning, executing, controlling, and closing Project management knowledge areas--integration, scope, time, cost, quality, human resource, communication, risk, and procurement management IT management knowledge areas--user requirements, infrastructure, conversion, software configuration, workflow, security, interface, testing, cutover, and support management Change management knowledge areas--realization, sponsorship, transformation, training, and optimization management Project Management for Information, Technology, Business, and Certification provides you with proven project-management processes, broadly-tested techniques, and solid approaches to successfully manage projects of varying sizes and complexity. IT and business students will find this text useful in educating them on the important role disciplined project

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management plays in transforming corporate strategy into reality.

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