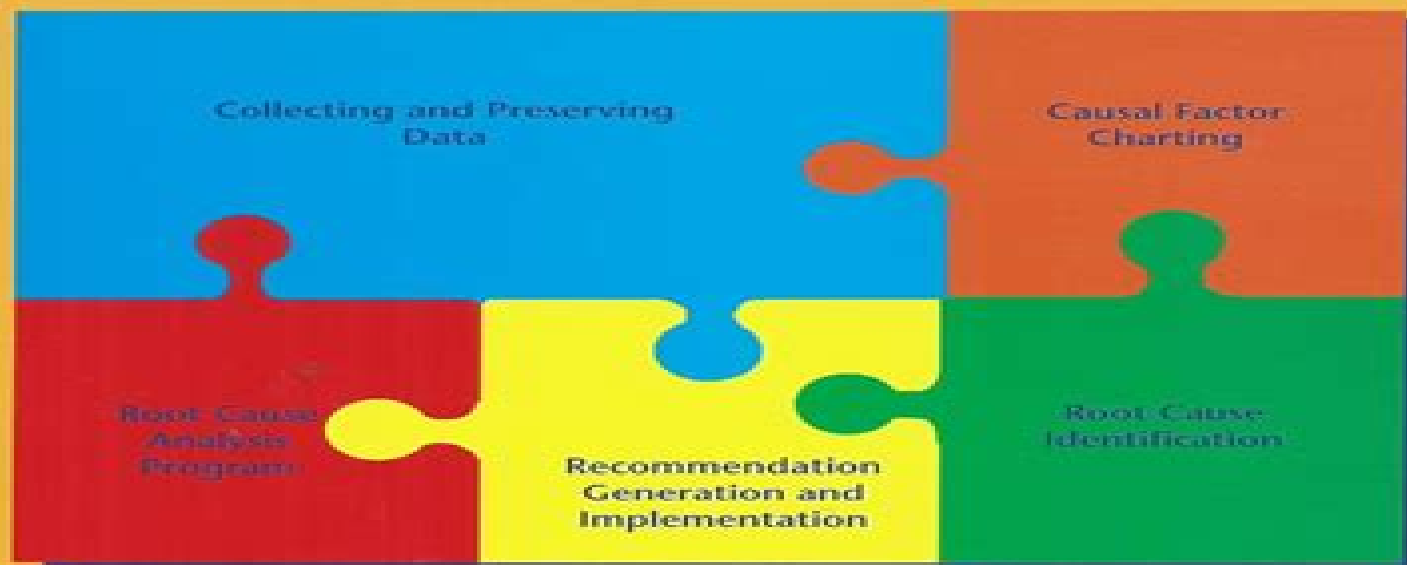




Government Institutes

Root Cause Analysis Handbook

A Guide to Effective Incident Investigation



EQE International, Inc., an ABS Group Company

Root Cause Analysis Handbook A Guide To Effective Incident Investigation

**Brian Allen, Esq., CISSP, CISM, CPP,
CFE, Rachelle Loyear CISM, MBCP**

Root Cause Analysis Handbook A Guide To Effective Incident Investigation:

Root Cause Analysis Handbook ABS Consulting, Donald K. Lorenzo, Laura O. Jackson, 2008-07-07 The third edition of this global classic is the most comprehensive all in one package of book downloadable resources color coded RCA map and online resources currently available for Root Cause Analysis RCA Called by users the best resource on the subject and in a league of its own The package offers the unique breadth depth and practicality that can only come from six authors with 125 years of combined international RCA consulting experience It presents a globally successful proprietary methodology developed by an international consulting firm with 50 years experience in 35 countries Reach for it anytime you need field tested advice for investigating categorizing reporting and trending and ultimately eliminating the root causes of incidents with quality reliability environmental health safety and production process impacts The total package includes 300 page Handbook focusing on rigorous application of structured techniques for both apparent cause analyses and root cause analyses It includes step by step instructions checklists and forms for performing an analysis and enables users to effectively incorporate the methodology and apply it to a variety of situations There are numerous incident facility and industry specific examples plus 120 figures and tables Downloadable Resources Toolkit including examples of cause and effect Trees and a sample template examples of cause and effect Timelines and a sample template toolkits for Investigating Data Gathering Data Analysis etc plentiful forms and checklists field tested toolkit ABS Consulting uses in its projects that you can adapt for your own RCA incident investigation program and a resource list of recommended books websites organizations etc Root Cause Map full color coded wall chart 17 x 22 a powerful tool for staff to use in identifying and coding root causes Licensed access to ABS Consulting website for an abundant collection of articles up to date examples charts forms etc Root Cause Analysis Handbook is widely used in corporate training programs and college courses all over the world If you are responsible for quality reliability safety and or risk management you ll want this comprehensive and practical resource at your fingertips The book has been selected by the American Society for Quality ASQ and the Risk and Insurance Society RIMS

Root Cause Analysis Handbook ABS Consulting, Lee N. Vanden Heuvel, 2005 Root Cause Analysis Handbook A Guide to Effective Incident Investigation presents a proven system designed for investigating categorizing and ultimately eliminating rootcauses of incidents with safety health environmental quality reliability and production process impacts Defined as a tool to help investigators describe what happened to determine how it happened and to understand why it happened the Root Cause Analysis System enables businesses to generate specific concrete recommendations for preventing incident recurrences Using the factual data of the incident the system also allows quality safety and risk and reliability managers an opportunity to implement more reliable and more cost effective policies that result in major long term opportunities for improvement Such process improvements increase a business ability to recover from and prevent disasters with both financial and health and safety implications Special features include a 17 inch by 22 inch pull out Root Cause Map

a powerful tool for identifying and coding root causes The book helps readers to understand why root causes are important to identify and define inherent problems to collect data for problem solving to analyze data for root causes and to generate practical recommendations This edition is a reprinting of the 1999 edition ORGANIZATION OF THE ROOT CAUSE ANALYSIS HANDBOOK The focus of this handbook is on the application of the Root Cause Map to the root cause analysis process The Root Cause Map is used in one of the later steps of the root cause analysis process to identify the underlying management systems that caused the event to occur or made the consequences of the event more severe The first five chapters of this handbook are an overview of the root cause analysis process These provide the context for use of the Root Cause Map Chapter 6 provides references Chapter 1 Introduction to Root Cause Analysis presents a basic overview of the SOURCE Seeking Out the Underlying Root Causes of Events root cause analysis process Chapter 2 Collecting and Preserving Data for Analysis outlines the types of data and data sources that are available Chapters 3 4 and 5 describe the three major steps in the root cause analysis process Chapter 3 Data Analysis Using Causal Factor Charting provides a step by step description of causal factor charting techniques Chapter 4 Root Cause Identification explains the organization and use of the Root Cause Map Chapter 5 Recommendation Generation and Implementation provides guidance on developing and implementing corrective actions The references section Chapter 6 provides additional information for those interested in learning more about specific items contained in the handbook Appendix A Root Cause Map Node Descriptions describes each segment of the Root Cause Map and presents detailed descriptions of the individual nodes on the map Appendix B is the Root Cause Map itself

Root Cause Analysis Handbook ABS Consulting, Lee N. Vanden Heuvel, Donald K. Lorenzo, Randal L. Montgomery, Walter E. Hanson, James R. Rooney, 2019-12-31

Root Cause Analysis Handbook ABS Group Inc. Risk and Reliability Division, 1999 This book presents a proven system designed for investigating categorizing and ultimately eliminating root causes of incidents with safety health environmental quality reliability and production process impacts Defined as a tool to help investigators describe what happened to determine how it happened and to understand why it happened the Root Cause Analysis System enables businesses to generate specific concrete recommendations for preventing incident recurrences

Root Cause Analysis Handbook ABS Consulting, Lee N. Vanden Heuvel, Donald K. Lorenzo, Laura O. Jackson, Walter E. Hanson, James J. Rooney, David A. Walker, 2014-10-01 Are you trying to improve performance but find that the same problems keep getting in the way Safety health environmental quality reliability production and security are at stake You need the long term planning that will keep the same issues from recurring

Root Cause Analysis Handbook A Guide to Effective Incident Investigation is a powerful tool that gives you a detailed step by step process for learning from experience Reach for this handbook any time you need field tested advice for investigating categorizing reporting and trending and ultimately eliminating the root causes of incidents It includes step by step instructions checklists and forms for performing an analysis and enables users to effectively incorporate the methodology and apply it to a variety of situations

Using the structured techniques in the Root Cause Analysis Handbook you will Understand why root causes are important Identify and define inherent problems Collect data for problem solving Analyze data for root causes Generate practical recommendations The third edition of this global classic is the most comprehensive all in one package of book downloadable resources color coded RCA map and licensed access to online resources currently available for Root Cause Analysis RCA Called by users the best resource on the subject and in a league of its own Based on globally successful proprietary methodology developed by ABS Consulting an international firm with 50 years experience in 35 countries Root Cause Analysis Handbook is widely used in corporate training programs and college courses all over the world If you are responsible for quality reliability safety and or risk management you ll want this comprehensive and practical resource at your fingertips The book has also been selected by the American Society for Quality ASQ and the Risk and Insurance Society RIMS as a must have for their members *Root Cause Analysis, Second Edition* Duke Okes,2019-02-06 This best seller can help anyone whose role is to try to find specific causes for failures It provides detailed steps for solving problems focusing more heavily on the analytical process involved in finding the actual causes of problems It does this using figures diagrams and tools useful for helping to make our thinking visible This increases our ability to see what is truly significant and to better identify errors in our thinking In the sections on finding root causes this second edition now includes more examples on the use of multi vari charts how thought experiments can help guide data interpretation how to enhance the value of the data collection process cautions for analyzing data and what to do if one can t find the causes In its guidance on solution identification biomimicry and TRIZ have been added as potential solution identification techniques In addition the appendices have been revised to include an expanded breakdown of the 7 M s which includes more than 50 specific possible causes forms for tracking causes and solutions which can help maintain alignment of actions techniques for how to enhance the interview process and example responses to problem situations that the reader can analyze for appropriateness **Effective Operations and Performance Management** Bloomsbury Publishing,2010-10-01 Effective Operations and Performance Management is a multi author volume written by practitioners and academics in their respective fields of expertise including Andrew Mayo Subir Chowdhur Andrew Cox and Leslie L Kossoff providing coverage in all aspects of operations and performance within a company The book addresses measuring and managing operational issues providing you with a solid platform from which to develop strategies and grow your business It includes over 30 chapters covering the management of operations and performance It offers you a rich vein of thought leadership and best practice and practical step by step guides on methods to improve operational robustness and measure performance There are a range of Checklists including Performing a Skills Gap Analysis The Triple Bottom Line Using and Understanding Financial Ratios for Analysis Applying Stress Testing to Business Continuity Management plus much more **Cause Analysis Manual** Fred Forck, CPT,2016-10-05 A failure or accident brings your business to a sudden halt How did it happen What s at the root of the

problem What keeps it from happening again Good detective work is needed but how do you go about it In this new book industry pioneer Fred Forck s seven step cause analysis methodology guides you to the root of the incident enabling you to act effectively to avoid loss of time money productivity and quality From 30 years of experience as a performance improvement consultant self assessment team leader and trainer Fred Forck CPT understands what you need to get the job done He leads you through a clear step by step process of root cause evaluation quality improvement and corrective action Using these straightforward tools you can avoid errors increase reliability enhance performance and improve bottom line results while creating a resilient culture that avoids repeat failures The key phases of this successful cause analysis include Scoping the Problem Investigating the Factors Reconstructing the Story Establishing Contributing Factors Validating Underlying Factors Planning Corrective Actions Reporting Learnings At each stage Cause Analysis Manual Incident Investigation Method and Techniques gives you a wealth of real world examples models thought provoking discussion questions and ready to use checklists and forms The author provides references for further reading hundreds of illustrative figures tables and diagrams a full glossary of terms and acronyms professional index You know that identifying causes and preventing business disrupting events isn t always easy By following Fred Forck s proven steps you will be able to identify contributing factors align organizational behaviors take corrective action and improve business performance Are you a professor or leader of seminars or workshops On confirmed course adoption of Cause Analysis Manual Incident Investigation Method and Techniques you will have access to a comprehensive professional Instructor s Manual

Root Cause Analysis in Engineering Design, 2024-07-21 Engineering design is an intricate process that demands precision innovation and a keen understanding of the underlying factors that contribute to both success and failure Introduction to Root Cause Analysis for Engineering Design is a comprehensive guide that equips engineers designers and quality professionals with the tools and methodologies needed to identify analyze and rectify the fundamental causes of problems within engineering systems Key Features In Depth Exploration of RCA Delve into the core principles and methodologies of Root Cause Analysis RCA Understand how RCA extends beyond merely addressing symptoms to uncover the root causes of failures ensuring sustainable and long lasting solutions Historical and Theoretical Foundations Gain insights into the historical evolution of RCA influenced by pioneers like W Edwards Deming and Kaoru Ishikawa Explore the theoretical underpinnings that have shaped modern RCA practices Practical Methodologies Learn step by step processes for implementing various RCA methodologies including Fishbone Diagrams 5 Whys Fault Tree Analysis FTA and Failure Mode and Effects Analysis FMEA Each method is detailed with clear instructions and practical examples Tools and Techniques Discover a range of statistical tools simulation methods and software solutions that enhance the RCA process From Pareto Charts to advanced Big Data Analytics this book provides a toolkit for effective problem solving Human Factors Understand the critical role of human error in engineering failures Learn techniques for identifying and mitigating human factors to improve safety and reliability

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Guidelines for Investigating Chemical Process Incidents CCPS (Center for Chemical Process Safety),2010-08-13 This book provides a valuable reference tool for technical and management personnel who lead or are a part of incident investigation teams This second edition focuses on investigating process related incidents with real or potential catastrophic consequences It presents on the job information techniques and examples that support successful investigations The methodologies tools and techniques described in this book can also be applied when investigating other types of events such as reliability quality occupational health and safety incidents The accompanying CD ROM contains the text of the book for portability as well as additional supporting tools for on site reference and trouble shooting Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Guidelines for Investigating Process Safety Incidents CCPS (Center for Chemical Process Safety),2019-05-29 This book provides a comprehensive treatment of investing chemical processing incidents It presents on the job information techniques and examples that support successful investigations Issues related to identification and classification of incidents including near misses notifications and initial response assignment of an investigation team preservation and control of an incident scene collecting and documenting evidence interviewing witnesses determining what happened identifying root causes developing recommendations effectively implementing recommendation communicating investigation findings and improving the investigation process are addressed in the third edition While the focus of the book is investigating process safety incidents the methodologies tools and techniques described can also be applied when investigating other types of events such as reliability quality occupational health and safety incidents

Accident/Incident Prevention Techniques Charles D. Reese,2011-10-25 Published more than ten years ago the first edition of Accident Incident Prevention Techniques provided clear comprehensive guidance on

how to mitigate the cost in personnel and to the bottom line of accidents incidents in the workplace Significantly revised and updated this Second Edition takes its place as the A to Z hands on guide to the r The Manager's Guide to Cybersecurity Law Tari Schreider, SSCP, CISM, C|CISO, ITIL Foundation, 2017-02-01 In today's litigious business world cyber related matters could land you in court As a computer security professional you are protecting your data but are you protecting your company While you know industry standards and regulations you may not be a legal expert Fortunately in a few hours of reading rather than months of classroom study Tari Schreider's The Manager's Guide to Cybersecurity Law Essentials for Today's Business lets you integrate legal issues into your security program Tari Schreider a board certified information security practitioner with a criminal justice administration background has written a much needed book that bridges the gap between cybersecurity programs and cybersecurity law He says My nearly 40 years in the fields of cybersecurity risk management and disaster recovery have taught me some immutable truths One of these truths is that failure to consider the law when developing a cybersecurity program results in a protective facade or false sense of security In a friendly style offering real world business examples from his own experience supported by a wealth of court cases Schreider covers the range of practical information you will need as you explore and prepare to apply cybersecurity law His practical easy to understand explanations help you to Understand your legal duty to act reasonably and responsibly to protect assets and information Identify which cybersecurity laws have the potential to impact your cybersecurity program Upgrade cybersecurity policies to comply with state federal and regulatory statutes Communicate effectively about cybersecurity law with corporate legal department and counsel Understand the implications of emerging legislation for your cybersecurity program Know how to avoid losing a cybersecurity court case on procedure and develop strategies to handle a dispute out of court Develop an international view of cybersecurity and data privacy and international legal frameworks Schreider takes you beyond security standards and regulatory controls to ensure that your current or future cybersecurity program complies with all laws and legal jurisdictions Hundreds of citations and references allow you to dig deeper as you explore specific topics relevant to your organization or your studies This book needs to be required reading before your next discussion with your corporate legal department

The Manager's Guide to Enterprise Security Risk Management Brian Allen, Rachelle Loyear, 2016-11-15 Is security management changing so fast that you can't keep up Perhaps it seems like those traditional best practices in security no longer work One answer might be that you need better best practices In their new book The Manager's Guide to Enterprise Security Risk Management Essentials of Risk Based Security two experienced professionals introduce ESRM Their practical organization wide integrated approach redefines the securing of an organization's people and assets from being task based to being risk based In their careers the authors Brian Allen and Rachelle Loyear have been instrumental in successfully reorganizing the way security is handled in major corporations In this ground breaking book the authors begin by defining Enterprise Security Risk Management ESRM Enterprise security risk

management is the application of fundamental risk principles to manage all security risks whether information cyber physical security asset management or business continuity in a comprehensive holistic all encompassing approach In the face of a continually evolving and increasingly risky global security landscape this book takes you through the steps of putting ESRM into practice enterprise wide and helps you to Differentiate between traditional task based management and strategic risk based management See how adopting ESRM can lead to a more successful security program overall and enhance your own career Prepare your security organization to adopt an ESRM methodology Analyze and communicate risks and their root causes to all appropriate parties Identify what elements are necessary for long term success of your ESRM program Ensure the proper governance of the security function in your enterprise Explain the value of security and ESRM to executives using useful metrics and reports Throughout the book the authors provide a wealth of real world case studies from a wide range of businesses and industries to help you overcome any blocks to acceptance as you design and roll out a new ESRM based security program for your own workplace

Enterprise Security Risk Management Brian Allen, Esq., CISSP, CISM, CPP, CFE, Rachelle Loyear CISM, MBCP, 2017-11-29 As a security professional have you found that you and others in your company do not always define security the same way Perhaps security interests and business interests have become misaligned Brian Allen and Rachelle Loyear offer a new approach Enterprise Security Risk Management ESRM By viewing security through a risk management lens ESRM can help make you and your security program successful In their long awaited book based on years of practical experience and research Brian Allen and Rachelle Loyear show you step by step how Enterprise Security Risk Management ESRM applies fundamental risk principles to manage all security risks Whether the risks are informational cyber physical security asset management or business continuity all are included in the holistic all encompassing ESRM approach which will move you from task based to risk based security How is ESRM familiar As a security professional you may already practice some of the components of ESRM Many of the concepts such as risk identification risk transfer and acceptance crisis management and incident response will be well known to you How is ESRM new While many of the principles are familiar the authors have identified few organizations that apply them in the comprehensive holistic way that ESRM represents and even fewer that communicate these principles effectively to key decision makers How is ESRM practical ESRM offers you a straightforward realistic actionable approach to deal effectively with all the distinct types of security risks facing you as a security practitioner ESRM is performed in a life cycle of risk management including Asset assessment and prioritization Risk assessment and prioritization Risk treatment mitigation Continuous improvement Throughout Enterprise Security Risk Management Concepts and Applications the authors give you the tools and materials that will help you advance you in the security field no matter if you are a student a newcomer or a seasoned professional Included are realistic case studies questions to help you assess your own security program thought provoking discussion questions useful figures and tables and references for your further reading By redefining how everyone

thinks about the role of security in the enterprise your security organization can focus on working in partnership with business leaders and other key stakeholders to identify and mitigate security risks As you begin to use ESRM following the instructions in this book you will experience greater personal and professional satisfaction as a security professional and you ll become a recognized and trusted partner in the business critical effort of protecting your enterprise and all its assets

Engineering Risk Management Thierry Meyer,Genserik Reniers,2022-04-04 This book is a valuable resource for achieving and promoting a culture of risk awareness and integrating risk management principles and practices into the educational environment This integration is essential to ensure that students have the knowledge and skills to identify hazards and assess and control risks in different contexts through the development and implementation of a risk management curriculum Besides theoretical considerations and learning to ask the right questions at all times for the sake of critical thinking effective risk management education also involves the use of case studies simulations and other experiential learning tools to help students understand and apply risk management concepts in real life situations This approach helps students develop a questioning attitude and problem solving skills which are essential for effective risk management Overall the interface between risk management and education is essential to develop a generation of professionals who can effectively deal with risks in a variety of contexts By integrating risk management principles and practices into the educational process educational institutions can help ensure that their students are well prepared to meet the challenges of the modern world

Occupational Health and Safety Management Charles D. Reese,2018-10-08 Reflecting changes in the current health and safety landscape Occupational Health and Safety Management A Practical Approach Third Edition includes examples and tools to facilitate development and implementation of a safety and health management approach This how to book is not just an information providing text It shows you how to write a program and identify hazards as well as involve workers and attain their cooperation It emphasizes the need for better and more effective communication regarding safety and health See What s New in the Third Edition Chapters on workers compensation terrorism and Lean safety sustainability Additional coverage of flammable liquids and ventilation accident reporting and accident investigation New compliance requirements as well as expanded accident investigation environmental and risk analysis guidelines PowerPoint presentation slides for each chapter A complete and practical guide for the development and management of occupational safety and health programs in any industry setting the book supplies a management blueprint that can be used for occupational safety and health in any organization from the smallest to the largest beginning to develop or wanting to improve its safety and health approach It includes comprehensive guidelines for development of occupational health and safety programs to a variety of industries and is especially useful for start up companies The author takes a total management approach to the development of written programs the identification of hazards the mitigation of hazards by the use of common safety and health tools the development of a safe workforce through communications motivational techniques involvement and training He addresses

the tracking and acceptable risk from both safety and health hazards He also discusses how to work with and within the OSHA compliance approach as well as how to deal with the OSHA regulations workers compensation terrorism and Lean safety As you understand and apply the guidelines in each chapter you can put your company on the way toward building a successful and effective safety and health effort for its employers and employees *On Your First Attempt, Become a Certified Safety Professional* Sami Ullah Rajput, 2023-02-27 In gratitude to those who inspired him contributed research and provided data author wishes to express his gratitude Those who have supported contributed or participated in this project are officially acknowledged We would not have been able to complete this project without your support and involvement This book contains several useful resources and sources including the Canadian Centre for Occupational Health and Safety the Occupational Safety and Health Administration the National Safety Council the National Fire Protection Association and many others Among them are the Health and Safety Executive the Board of Certified Safety Professionals the American Conference of Governmental Industrial Hygienists and the Board of Canadian Registered Safety Professionals The references section at the end of each chapter identifies all sources whenever possible Please let us know by email at safety expert2058 gmail com if the author has missed any references or acknowledgments so we can make the necessary changes Being a member of the safety community the author practices safety ethics to the fullest extent possible By raising people s knowledge the book aims to help safety professionals achieve highly recognized qualifications at their very first attempt

Principles of Forensic Engineering Applied to Industrial Accidents Luca Fiorentini, Luca Marmo, 2019-01-29 An introductory text on the investigation of industrial accidents Forensic engineering should be seen as a rigorous approach to the discovery of root causes that lead to an accident or near miss The approach should be suitable to identify both the immediate causes as well as the underlying factors that affected amplified or modified the events in terms of consequences evolution dynamics etc as well as the contribution of an eventual human error This book is a concise and introductory volume to the forensic engineering discipline which helps the reader to recognize the link among those important very specialized aspects of the same problem in the global strategy of learning from accidents or near misses The reader will benefit from a single point of access to this very large technical literature that can be only correctly understood with the right terms definitions and links in mind Keywords Presents simple real cases as well as giving an overview of more complex ones each of them investigated within the same framework Gives the readers the bibliography to access more in depth specific aspects Offers an overview of the most commonly used methodologies and techniques to investigate accidents including the evidence that should be collected to define the cause dynamics and responsibilities of an industrial accident as well as the most appropriate methods to collect and preserve the evidence through an appropriate chain of security Principles of Forensic Engineering Applied to Industrial Accidents is essential reading for researchers and practitioners in forensic engineering as well as graduate students in forensic engineering departments and other professionals *The Manager's Guide to Simple,*

Strategic, Service-Oriented Business Continuity Rachelle Loyear, MBCP, AFBCI, CISM, PMP, 2017-05-10 You have the knowledge and skill to create a workable Business Continuity Management BCM program but too often your projects are stalled while you attempt to get the right information from the right person Rachelle Loyear experienced these struggles for years before she successfully revamped and reinvented her company's BCM program In *The Manager's Guide to Simple Strategic Service Oriented Business Continuity* she takes you through the practical steps to get your program back on track Rachelle Loyear understands your situation well Her challenge was to manage BCM in a large enterprise that required hundreds of BC plans to be created and updated The frustrating reality she faced was that subject matter experts in various departments held the critical information she needed but few were willing to write their parts of the plan She tried and failed using all the usual methods to educate and motivate and even threaten departments to meet her deadlines Finally she decided there had to be a better way The result was an incredibly successful BCM program that was adopted by BCM managers in other companies She calls it The Three S's of BCM Success which can be summarized as Simple Strategic Service Oriented Loyear's approach is easy and intuitive considering the BCM discipline from the point of view of the people in your organization who are tasked to work with you on building the plans and program She found that most people prefer Simple solutions when they are faced with something new and different Strategic use of their time making their efforts pay off Service to be provided lightening their part of the load while still meeting all the basic requirements These tactics explain why the 3S program works It helps you it helps your program and it helps your program partners Loyear says If you follow the Three S philosophy the number of plans you need to document will be fewer and the plans will be simpler and easier to produce I've seen this method succeed repeatedly when the traditional method of handing a business leader a form to fill out or a piece of software to use has failed to produce quality plans in a timely manner In *The Manager's Guide to Simple Strategic Service Oriented Business Continuity* Loyear shows you how to Completely change your approach to the problems of BCM buy in Find new ways to engage and support your BCM program partners and subject matter experts Develop easier to use policies procedures and plans Improve your overall relationships with everyone involved in your BCM program Craft a program that works around the roadblocks rather than running headlong into them

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Root Cause Analysis Handbook A Guide To Effective Incident Investigation Introduction

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