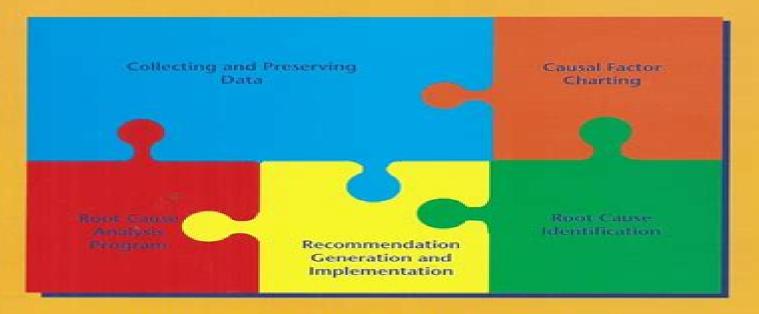


# Root Cause Analysis Handbook

A Guide to Effective Incident Investigation



EQE International, Inc., an ABS Group Company

# **Root Cause Analysis Handbook Book**

**Chester D. Rowe** 

# **Root Cause Analysis Handbook Book:**

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 ASO and the Risk and Insurance Society RIMS as a must have for their members 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 199 edition ORGANIZATION OF THE ROOT CAUSE ANALYSIS

HANDBOOKThe 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 rootcause 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 AppendixB is the Root Cause Map Root Cause Analysis Handbook ABS Group Inc. Risk and Reliability Division, 1999 This book presents a proven itself 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 The Root Cause Analysis Handbook Max Ammerman, 1998-02-10 The answer is root cause analysis a process that allows you to find the cause of single events problems in the workplace The Root Cause Analysis Handbook presents a walkthrough example that illustrates the method and shows how to implement it Because poor initial problem definition can and often does undermine the problem solving process Ammerman places special emphasis on this area to build a solid foundation for effective analysis He also provides guidance on preparing the final report The need for clear documentation on dealing with problems makes this book especially valuable for quality managers engineers safety managers and teams implementing the ISO or QS standards Written in a simple user friendly style you will grasp the core concepts quickly and begin applying them to your work

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, Second Edition Bjørn Andersen, Tom Fagerhaug, 2006-01-01 This updated and expanded edition discusses many different tools for root cause analysis and presents them in an easy to follow structure a general description of the tool its purpose and typical applications the procedure when using it an example of its use a checklist to help you make sure if is applied properly and different forms and templates that can also be found on

an accompanying CD ROM The examples used are general enough to apply to any industry or market The layout of the book has been designed to help speed your learning Throughout the authors have split the pages into two halves the top half presents key concepts using brief language almost keywords and the bottom half uses examples to help explain those concepts A roadmap in the margin of every page simplifies navigating the book and searching for specific topics The book is suited for employees and managers at any organizational level in any type of industry including service manufacturing and 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 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

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and insightful way of asking why Introducing his multi function event investigation tool Chester Rowe says There are already many scientific tools to help us understand the physical causes for machine failures the challenge now is to find a way of investigating human performance failure modes humans are often a major source of slips lapses and mistakes Supporting his instructions with diagrams charts and real world examples from companies like yours the author takes you step by step through planning completing and documenting your investigation Chapter 1 gives you a process to determine the level of effort that your investigation should encompass assess the level of effort needed and determine the rigor needed Your investigation needs to be as risk informed as possible Chapters 2 through 5 presents a new and innovative structure rigorous yet intuitively easy to remember to identify the underlying causes for the event Cause Road Maps and conduct the investigation Chapter 6 introduces conceptual human performance models and tells you how to begin focusing on the human behaviors involved Chapters 7 and 8 present you with methods tools and techniques for carefully interviewing personnel Chapters 9 through 13 put the pieces together showing you how to analyze and model the event determine corrective action and document the investigations and findings Chester Rowe developed the Cause Road Map over many years to provide a comprehensive taxonomy for every cause investigation However fully implementing the Cause Road Map requires the use of other tools to organize analyze and present the final results of your investigation To get you started Rowe includes his downloadable Interactive Cause Analysis Tool an easy to use tool in familiar spreadsheet format free with your verified purchase of the book 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 fa ade 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

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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 The Manager's Guide to Business Continuity Exercises Jim Burtles, KLJ, MMLJ, Hon FBCI,2016-10-06 You designed your Business Continuity Plan to keep your business in business regardless of the forces of man and nature But how do you know that the plan really works Few companies can afford the recommended full scale exercises several times a year In The Manager's Guide to Business Continuity Exercises Jim Burtles an internationally known expert details the options for conducting a range of tests and exercises to keep your plan effective and up to date Your challenge is to maintain a good and effective plan in the face of changing circumstances and limited budgets If your situation is like that in most companies you

really cannot depend on the results of last year s test or exercise of the plan People tend to forget lose confidence lose interest or even be replaced by other people who were not involved in your original planning Jim Burtles explains You cannot have any real confidence in your plans and procedures until they have been fully tested Exercises are the only way we can be sure that the people will be able to interpret the plans and procedures correctly within the requisite timeframe under difficult circumstances As you do your job in this constantly shifting context Jim Burtles helps you to Differentiate between an exercise and a test and see the value of each in your BC program Understand the different types of plans and identify the people who need to be involved in exercises and tests for each Use the Five Stage Growth Path from desktop to walkthrough to full scale exercise to conduct gradual testing educate personnel foster capability and build confidence Create a variety of unusual scenario plot lines that will keep up everyone s interest Identify the eight main elements in developing and delivering a successful BC exercise Select and prepare a delivery team and a response team for your exercise Make sure everyone understands the rules of engagement Use the lessons learned from exercises and tests to audit update and maintain the plan You are well aware that a host of problems may crop up in any kind of company wide project These problems can range from basic logistics like time and place to non support from executives and managers to absenteeism to the weather to participants forgetting their lines Throughout the book Burtles uses his decades of experience working with companies like yours to give you useful examples case studies and down to earth advice to help you handle the unexpected and work toward Advanced Safety Management Focusing on Z10 and Serious Injury Prevention Fred A. the results you are looking for Manuele, 2011-09-20 Learn how to improve the effectiveness of safety and health management systems by adopting ANSI Z10 provisions and avoid serious workplace injuries This reference addresses specific provisions including risk assessment methods and prioritization applying a prescribed hierarchy of controls implementing safety design reviews and more It also explains how to integrate best practices for the prevention of serious injuries in your workplace See how implementing the ANSI Z10 standard can enhance your company s productivity cost efficiency and quality 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 Sevice 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 The Manager's Guide to Ouick Crisis Response Bruce T. Blythe, 2016-08-02 Avoid being blindsided by an unexpected emergency or crisis in the workplace violence natural disaster or worse Bruce Blythe s The Manager s Guide to Quick Response in a Crisis Effective Action in an Emergency offers the time tested skills that prepare you to act effectively on behalf of yourself and your co workers in the face of threat and chaos Blythe uses real world case studies examples and checklists to help you be the top notch leader the situation requires Hope for the best and prepare for the worst sums up Blythe s philosophy This short book is the essence of the basic practical counseling that he would give if he were sitting next to you at your desk To help you figure out what to do next he offers real world examples of what has worked and not worked in his 30 years of experience with companies just like yours With Blythe's advice you can act fast to Find out the accurate facts you need to strategize and implement a response Compile a checklist of immediate action items Create a crisis command center CCC Select the best people for your action team and determine action steps Understand how to make good decisions in a crisis or emergency Handle the human side of a traumatic incident Set priorities in multiple timeframes Establish a new normal as everyone phases back into productive work after the incident To help you take the actions that will make a difference the book includes Practical forms checklists cases studies and real life examples Quick Use Response Guide at the end of each chapter all four can form a handy pocket quide The Manager's Guide to Handling the Media in Crisis James E. Lukaszewski, ABC, Fellow IABC, APR, Fellow PRSA, BEPS Emeritus, 2016-08-02 Attracting media attention is surprisingly easy you just want it to be the right kind If an event causes the phone to ring and TV cameras to appear in your lobby you need confidence that the people who happen to be at

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