



The diagram is a tree where the canopy is green and labeled 'SYMPTOMS'. The trunk is brown and labeled 'PROBLEM'. The roots are in a dark grey oval, with four branches labeled 'CAUSE'. An orange box on the left says 'Root Cause' and an orange box on the right says 'Analysis'.

SYMPTOMS

Root Cause

PROBLEM

CAUSE

CAUSE

CAUSE

CAUSE

Analysis

# Root Cause Analysis

**Duke Okes**



## **Root Cause Analysis:**

Root Cause Analysis 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 Ms 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. *Root Cause Analysis* Robert J. Latino, Kenneth C. Latino, Mark A.

Latino, 2011-06-17 What is RCA? It seems like such an easy question to answer yet from novices to veterans and practitioners to providers, no one seems to have come to agreement or consensus on an acceptable definition for the industry. Now in its fourth edition, *Root Cause Analysis: Improving Performance for Bottom Line Results* discusses why it is so hard to get such consensus and why various providers are reluctant for that to happen. See what's new in the Fourth Edition: Human Error Reduction Techniques, HERT, new chapter Failure Scene Investigation, FSI, Disciplined Evidence Gathering, Categorical versus Cause and Effect RCA Tools, Analysis Tools Review, The Germination of a Failure, Constructing a Logic Tree, Introduction of PROACT on Demand SM, The Advantages of Software as a Service, SaaS, The Pros and Cons of RCA Templates, Three New Client Case Histories. The authors discuss evidence collection and strategy, failure scene investigation techniques, the human element, and the contribution of human performance and human factors to poor decision making. They clarify definitions that can be considered ambiguous and underscore the distinctions between applying PROACT manually using a paper-based system versus using an automated software tool. Written by practitioners for practitioners, the book outlines an entire RCA system which involves a cultural paradigm change about how failure is perceived and acted upon in an organization. The authors' trademark down-to-earth style provides a step-by-step action plan for how to construct and implement a root cause analysis system that can be applied to any industry. Read *MRI Safety 10 Years Later*, co-authored by Robert Latino. **Root Cause Analysis** Paul F. Wilson, Larry D. Dell, Gaylord F. Anderson, 1993 This book describes the methods and tools used to develop and implement an effective TQM program. It provides a practical explanation of root cause analysis and discusses the proactive use of analysis techniques for the prediction and prevention of problems. It emphasizes the basic concepts, various analysis techniques, and their common purpose in determining the true cause of problems. School Leader's Guide to Root

Cause Analysis Paul Preuss, 2013-09-27 Don't jump from problem to solution without first investigating root causes. This book helps you more accurately focus on school improvement issues so you can avoid wasting precious time and resources. It is clearly written, contains lots of real examples, and is presented in a style and format designed for the non-expert. It will help you make decisions which will improve learning for all students.

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 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.

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Root Cause Analysis  
Bjorn Andersen, Tom Fagerhaug, 2006-03-22 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 it is applied properly and different forms and templates 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 the public sector

COMMENTS FROM OTHER CUSTOMERS Average Customer Rating 4 of 5 based on 1 review This book is a good intro to Root Cause Analysis tools It is easy to read and laid out in a good format with a picture and or sample provided for every tool

discussed along with a checklist for its usage There is the occasional spot of confusing information and some of the explanations seem over simplified or under explained But this is not highly prevalent and the book does accomplish giving the reader a great introduction to these tools and techniques It may be insufficient for those who are looking for more advanced or in depth information on any of the tools and techniques Beginners should find this a very helpful book and one that will be referenced often as they start practicing Root Cause Analysis A reader in Bradenton Florida

**Root Cause Analysis** Denise Robitaille,2010 Do you have recurring problems that are costing you time and money Unresolved problems do more than aggravate They can increase costs lower quality and drive customers away Plus quality management processes such as ISO 9001 require organizations to have a corrective and preventive action process in place Root cause analysis is integral to the success of any corrective action or problem solving process Unfortunately root cause analysis is an often maligned misunderstood and misapplied process Instead of viewing root cause analysis as an opportunity for improvement many see it only as an admission that things have gone wrong Root cause analysis should be seen as an opportunity not a chore This practical guide offers proven techniques for using root cause analysis in your organization Inside you ll find What root cause analysis is When and when not to use root cause analysis Who should participate in the root cause analysis process How to construct a root cause analysis checklist Examples of how a well run root cause analysis process works And much more

**The PROACT® Root Cause Analysis** Kenneth C. Latino,Mark A. Latino,Robert J. Latino,2020-09-10 Root Cause Analysis or RCA What is it Everyone uses the term but everyone does it differently How can we have any uniformity in our approach much less accurately compare our results if we re applying different definitions At a high level we will explain the difference between RCA and Shallow Cause Analysis because that is the difference between allowing a failure to recur or dramatically reducing the risk of recurrence In this book we will get down to basics about RCA the fundamentals of blocking and tackling and explain the common steps of any investigative occupation Common investigation steps include Preserving evidence data not allowing hearsay to fly as fact Organizing an appropriate team minimizing potential bias Analyzing the events reconstructing the incident based on actual evidence Communicating findings and recommendations ensuring effective recommendations are actually developed and implemented Tracking bottom line results ensuring that identified meaningful metrics were attained We explore Why don t things always go as planned When our actual plans deviate from our intended plans we usually experience some type of undesirable or unintended outcome We analyze the anatomy of a failure undesirable outcome and provide a step by step guide to conducting a comprehensive RCA based on our 3 decades of applying RCA as we have successfully practiced it in the field This book is written as a how to guide to effectively apply the PROACT RCA methodology to any undesirable outcome is directed at practitioners who have to do the real work focuses on the core elements of any investigation and provides a field proven case as a model for effective application This book is for anyone charged with having a thorough understanding of why something went wrong such as those in EH S maintenance

reliability quality engineering and operations to name just a few

**Root Cause Analysis** Robert J. Latino, Mark A. Latino, Kenneth Latino, Kenneth C. Latino, 2006-05-05 There is no easy answer to the question What is RCA Some will give a general idea of what Root Cause Analysis RCA is designed to accomplish while others will advocate a specific approach In this third edition of the best selling Root Cause Analysis Improving Performance for Bottom Line Results acclaimed experts Robert and Ke *Root Cause Analysis (RCA)*, 2016 [Root Cause Analysis \(RCA\) for the Improvement of Healthcare Systems and Patient Safety](#) David Allison, CPPS, Harold Peters, P.Eng., 2021-08-23 The book follows a proven training outline including real life examples and exercises to teach healthcare professionals and students how to lead effective and successful Root Cause Analysis RCA to eliminate patient harm This book discusses the need for RCA in the healthcare sector providing practical advice for its facilitation It addresses when to use RCA how to create effective RCA action plans and how to prevent common RCA failures An RCA training curriculum is also included This book is intended for those leading RCAs of patient harm events leaders students and patient safety advocates who are interested in gaining more knowledge about RCA in healthcare

*Six Steps to Root Cause Analysis* Maria Dineen, 2011

**Root Cause Analysis** Robert J. Latino, Mark A. Latino, Kenneth Latino, Kenneth C. Latino, 2002-04-29 Undesirable outcomes chronic failure incidents and accidents The cost of such events to corporations is high generally adding up to tens and hundreds of millions of dollars in accepted losses Why accept these losses What if you could understand why these errors occur and eliminate chronic events from occurring altogether Root Cause

**ASQ Pocket Guide to Root Cause Analysis** Bjørn Andersen, Tom Fagerhaug, 2013-10-18 All organizations experience unintended variation and its consequences Such problems exist within a broad range of scope persistence and severity across different industries Some problems cause minor nuisances others leads to loss of customers or money others yet can be a matter of life and death The purpose of this pocket guide is to provide you with easily accessible knowledge about the art of problem solving with a specific focus on identifying and eliminating root causes of problems Root cause analysis is a skill that absolutely everybody should master irrespective of which sector you work in what educational background you have and which position in the organization you hold The content in this little pocket guide can contribute to disseminating this skill a little further in the world

**Root Cause Analysis** Matthew A. Barsalou, 2014-12-03 Although there are many books on root cause analysis RCA most concentrate on team actions such as brainstorming and using quality tools to discuss the failure under investigation These may be necessary steps during RCA but authors often fail to mention the most important member of an RCA team the failed part Root Cause Analysis A Step By Step [Beyond the Five Whys](#) James C. Paterson, 2023-11-14 A straightforward explanation of root cause analysis and systems thinking illustrating with real world examples and first hand accounts why things can slip through our fingers and what to do to reduce the chances of things going off track Beyond the Five Whys summarises for the first time many of the tried and tested ways of understanding problems using insights from aviation high reliability organisations and a range of thought provoking sources

The book provides readers with a clear and structured explanation how to analyse setbacks and head off problems in the first place It will challenge much of the received wisdom such as the idea there can be one root cause or that a person or bad culture could be a root cause Specific areas covered Learn what root causes are how they differ from immediate and contributing causes and why it s so important to go beyond the Five Whys technique for root cause analysis Recalibrate the way you think about things going wrong incorporating insights from systems thinking so you can be clearer what cultural or systemic problems mean in practice Learn about the eight principal ways things can slip through our fingers Go beyond the blame game and firefighting to avoid the never ending cycle of repeating issues Strengthen your ability to read the output of a lessons learned or enquiry report Get a fresh perspective using these techniques on why the Titanic tragedy turned out so badly and understand the numerous parallels between what happened then and a range of recent setbacks we have seen such as the Covid 19 pandemic Consider the broader application of these techniques to some of the challenges we face in the 21st century Beyond the Five Whys also contains supplemental guidance how to make improvements in an organisation It is of value to business managers and those in specialist roles such as GRC ESG risk compliance quality project management H S IT and internal audit roles      *Root Cause Analysis in Process-Based Industries* Menachem Horev,2010-08 This book provides a Root Cause Analysis methodology for process and equipment problems with a unique insight on sources and type of problems that appear in process lines      *Root Cause Analysis* Mark A. Latino,Robert J. Latino,Kenneth C. Latino,2019-06-26 This book comprehensively outlines what a holistic and effective Root Cause Analysis RCA system looks like From the designing of the support infrastructure to the measuring of effectiveness on the bottom line this book provides the blueprint for making it happen While traditionally RCA is viewed as a reactive tool the authors will show how it can be applied proactively to prevent failures from occurring in the first place RCA is a key element of any successful Reliability Engineering initiative Such initiatives are comprised of equipment process and human reliability foundations Human reliability is critical to the success of a true RCA approach This book explores the anatomy of a failure undesirable outcome as well as a potential failure high risks Virtually all failures are triggered by errors of omission or commission by human beings The methodologies described in this book are applicable to any industry because the focus is on the human being s ability to think through why things go wrong not on the industry or the nature of the failure This book correlates reliability to safety as well as human performance improvement efforts The author has provided a healthy balance between theory and practical application wrapping up with case studies demonstrating bottom line results Features Outlines in detail every aspect of an effective RCA system Displays appreciation for the role of understanding the physics of a failure as well as the human and system s contribution Demonstrates the role of RCA in a comprehensive Asset Performance Management APM system Explores the correlation between Reliability Engineering and Safety Integrates the concepts of Human Performance Improvement Learning Teams and Human Error Reduction approaches into RCA      Root Cause Analysis Duke Okes,2009



We live in a complex world. People and organizations often don't believe they have the time to perform the in-depth analyses required to solve problems. Instead, they take remedial actions to make the problem less visible and implement a patchwork of ad hoc solutions they hope will prevent recurrence. Then, when the problem returns, they get frustrated and the cycle repeats. This book provides detailed steps for how to solve problems, focusing more heavily on the analytical process involved in finding the actual causes of problems. It does so using a large number of figures, diagrams, and tools.

## Embracing the Tune of Phrase: An Mental Symphony within **Root Cause Analysis**

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