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Root Cause Analysis Subhash Mishra
With a wealth of helpful guidelines and assessment tools, Nursing Pathways for Patient Safety makes it easy to identify the causes of practice breakdowns and to reduce health care errors. It provides expert guidance from the National Council of State Boards of Nursing (NCSBN), plus an overview of the TERCAP® assessment tool. The book systematically examines the causes of practice breakdowns resulting from practice styles, health care environments, teamwork, and structural systems to promote patient safety. An overview of the NCSBN Practice Breakdown Initiative introduces the TERCAP® assessment tool and provides a helpful framework for understanding the scope of problems, along with NCSBN's approach to addressing them. Coverage of each type of practice breakdown systematically explores errors in areas such as clinical reasoning or judgment, prevention, and intervention. Case Studies provide real-life examples of practice breakdowns and help you learn to identify problems and propose solutions. Chapters on mandatory reporting and implementation of a whole systems approach offer practical information on understanding TERCAP® and implementing a whole systems approach to preventing practice breakdowns.
`Process Improvement with Electronic Health Records`

Springer Nature

The Practical Guide on How to Solve Ethics Case Study? For UPSC Civil Services & State PCS Main Examinations. STEP-BY-STEP GUIDE ALL NOTES COVERED 2013-2023 UPSC MAIN CASES Qs. SOLVED. Author: Subhash Mishra, Gold Medalist and NET JRF, BHU Description: Unlock the secrets to mastering ethics case studies with this comprehensive guide by Subhash Mishra, a distinguished Gold Medalist and NET JRF from BHU. Tailored for aspirants of the UPSC Civil Services and State PCS Mains examinations, this book offers a meticulous and fully solved analysis of ethics case studies spanning the years 2013 to 2023. Key Features: Step-by-Step Approach: Navigate the complexities of ethics case studies with a systematic and step-by-step approach. Mishra's guide ensures you develop a structured and insightful method for dissecting and solving each case. In-Depth Analysis: Benefit from Mishra's profound insights as he delves into the ethical nuances of each case study. Explore the ethical dilemmas, principles, and legal considerations crucial for success in the examinations. Practical Application of Theories: Learn how to apply ethical theories such as utilitarianism, deontology, and virtue ethics to real-world scenarios. Mishra provides practical examples, making theoretical concepts accessible and applicable. Comprehensive Notes: Access meticulously crafted notes that cover the entire spectrum of ethical issues tested in UPSC and State PCS Mains examinations. Stay ahead with comprehensive coverage of key topics from 2013 to 2023. Case-Based Learning: Immerse yourself in fully solved case studies, offering a hands-on learning experience. Mishra's detailed explanations and reasoning ensure you not only solve cases but also understand the underlying ethical principles. Strategies for Success: Receive expert guidance on how to prioritize solutions, justify decisions, and address counterarguments. Develop strategies for effective implementation, ensuring your ethical resolutions stand out in the examination. Embark on your journey towards mastering ethics in competitive exams with Subhash Mishra's unparalleled expertise. This book is not just a guide; it's your key to unlocking success in UPSC Civil Services and State PCS Mains examinations.

Revival: Safety and Reliability in the 90s (1990) CRC Press
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 Failure Analysis CRC Press
Although physicians and hospitals are receiving incentives to use electronic health records (EHRs), there is little emphasis on workflow and process improvement by providers or vendors. As a result, many healthcare organizations end up with incomplete product specifications and poor adoption rates.Process Improvement with Electronic Health Records: *Root Cause Analysis* CRC Press
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, Second Edition Quality Press

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!

Root Cause Analysis, Second Edition CRC Press

Handbook of Materials Failure Analysis: With Case Studies from the Oil and Gas Industry provides an updated understanding on why materials fail in specific situations, a vital element in developing and engineering new alternatives. This handbook covers analysis of materials failure in the oil and gas industry, where a single failed pipe can result in devastating consequences for people, wildlife, the environment, and the economy of a region. The book combines introductory sections on failure analysis with numerous real world case studies of pipelines and other types of materials failure in the oil and gas industry, including joint failure, leakage in crude oil storage tanks, failure of glass fibre reinforced epoxy pipes, and failure of stainless steel components in offshore platforms, amongst others. Introduces readers to modern analytical techniques in materials failure analysis Combines foundational knowledge with current research on the latest developments and innovations in the field Includes numerous compelling case studies of materials failure in oil and gas pipelines and drilling platforms

A Project Manager's Book of Tools and Techniques Elsevier Health Sciences

What does it mean to be a business analyst? What would you do every day?

How will you bring value to your clients? And most importantly, what makes a business analyst exceptional? This book will answer your questions about this challenging career choice through the prism of the business analyst mindset — a concept developed by the author, and its twelve principles demonstrated through many case study examples. "Business analyst: a profession and a mindset" is a structurally rich read with over 90 figures, tables and models. It offers you more than just techniques and methodologies. It encourages you to understand people and their behaviour as the key to solving business problems.

Guidelines for Preventing Human Error in Process Safety CRC Press

Each day, managers and employees are confronted with a plethora of real problems and decisions that are creating issues suchs as lost throughput, poor quality, personnel problems, and material shortages. How they approach these daily quandaries will determine how successful they are at resolving problems and making effective decisions. It is human nature for managers to solutions before they even understand the nature of the problems they are trying to solve. As a result, they end up making blind decisions that change perfectly acceptable processes for incorrect reasons. The real secret to solving problems does not depend upon the number of sophisticated statistical tools that one applies -- The secret to solving most problems is to keep the approach simple and uncomplicated. Many managers and employees make mistakes because they fail to do what Toyota does so effortlessly -- . They fail to perform the 'genmba walk,' during which they go to see the actual process, understand the work, ask questions, and learn. By following a structured approach, and using only simple tools, most problems can be solved, effective decisions can be made, and problems prevented. The cornerstones of this book are three detailed roadmaps for solving problems, preventing problems, and making effective decisions. Each roadmap contains a step-by-step explanation on how to solve existing problems, how to prevent future problems, and how to make effective decisions. The book provides real case studies to illustrate each of the techniques presented in the book.

Agile Processes in Software Engineering and Extreme Programming Paton Professional

Suitable as a reference for industry practitioners and as a textbook for classroom use, Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering (SoSE), enterprise systems engineering (ESE), and complex systems engineering (CSE). Multiple domain practitioners present and analyze case studies from a range of applications that demonstrate underlying principles and best practices of transdisciplinary systems engineering. A number of the case studies focus on addressing real human needs. Diverse approaches such as use of soft systems skills are illustrated, and other helpful techniques are also provided. The case studies describe, examine, analyze, and assess applications across a range of domains, including: Engineering management and systems engineering education Information technology business transformation and infrastructure engineering Cooperative framework for and cost management in the construction industry Supply chain modeling and decision analysis in distribution centers and logistics International development assistance in a foreign culture of education Value analysis in generating electrical energy through wind power Systemic risk and reliability assessment in banking Assessing emergencies and reducing errors in hospitals and health care systems Information fusion and operational resilience in disaster response systems Strategy and investment for capability developments in defense acquisition Layered, flexible, and decentralized enterprise architectures in military systems Enterprise transformation of the air traffic management and transport network Supplying you with a better understanding of SoSE, ESE, and CSE concepts and principles, the book highlights best practices and lessons learned as benchmarks that are applicable to other cases. If adopted correctly, the approaches outlined can facilitate significant progress in human affairs. The study of complex systems is still in its infancy, and it is likely to evolve for decades to come. While this book does not provide all the answers, it does establish a platform, through which analysis and knowledge application can take place and conclusions can be made in order to educate the next generation of systems engineers.

Advanced Information Systems Engineering Elsevier

This book explains the importance of root cause analysis (RCA) to globally-regulated industries (pharmaceutical, medical device, dietary

supplements), the common and easy-to-learn tools, team approaches, documentation, and how to institutionalize RCA into a company's culture. The material is presented as a practical narrative based on the author's actual experiences, successes and failures, in real world, less than ideal, environments. With this book the reader learns how to approach a problem, how to select the RCA tools, when and how to use them, verification and validation activities for products and processes, and how to document progress to final conclusion. Case studies demonstrate successful implementation of root cause analysis, and highlight pitfalls, false steps, and causes of failures.

<u>Business analyst: a profession and a mindset</u> Quality Press
Behind heart disease and cancer, medical error is now listed as one of the leading causes of death. Of the many medical errors that may lead to injury and death, diagnostic failure is regarded as the most significant. Generally, the majority of diagnostic failures are attributed to the clinicians directly involved with the patient, and to a lesser extent, the system in which they work. In turn, the majority of errors made by clinicians are due to decision making failures manifested by various departures from rationality. Of all the medical environments in which patients are seen and diagnosed, the emergency department is the most challenging. It has been described as a "wicked" environment where illness and disease may range from minor ailments and complaints to severe, life-threatening disorders. The Cognitive Autopsy is a novel strategy towards understanding medical error and diagnostic failure in 42 clinical cases with which the author was directly involved or became aware of at the time. Essentially, it describes a cognitive approach towards root cause analysis of medical adverse events or near misses. Whereas root cause analysis typically focuses on the observable and measurable aspects of adverse events, the cognitive autopsy attempts to identify covert cognitive processes that may have contributed to outcomes. In this clinical setting, no cognitive process is directly observable but must be inferred from the behavior of the individual clinician. The book illustrates unequivocally that chief among these cognitive processes are cognitive biases and other flaws in decision making, rather than knowledge deficits.

Handbook of Materials Failure Analysis with Case Studies from the Chemicals, Concrete and Power Industries Butterworth-Heinemann
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.

Root Cause Analysis CRC Press
With its easy-to-read writing style, Productivity and Reliability-

Based Maintenance Management provides a strong yet practical foundation on Total Productive Maintenance (TPM). This comprehensive practical guide departs from the wait-failure-emergency repair cycle that plagues many industries today. Instead, this text takes a proactive and productive maintenance approach, focusing on how to avoid failure in the first place. By using real-world case studies in every chapter, the author reinforces the importance of sound and proactive maintenance practices. The use of end-of-chapter problems and discussion questions helps to solidify concepts presented. Productivity and Reliability-Based Maintenance Management is a powerful educational tool for students as well as maintenance professionals and managers. This volume was previously published under the same title in 2004 by Pearson Education, and has been reprinted with permission through an arrangement with the author.

Handbook of Materials Failure Analysis with Case Studies from the Oil and Gas Industry Oxford University Press

Resource added for the Nursing-Associate Degree 105431, Practical Nursing 315431, and Nursing Assistant 305431 programs.

Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering Springer

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 su

The Problem-Solving, Problem-Prevention, and Decision-Making Guide Taylor & Francis

Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance. Regularly exposed to hazardous service conditions and damage mechanisms, these critical plant assets can result in major failures if not effectively monitored and assessed—potentially causing serious injuries and significant business losses. When used proactively, Root Cause Failure Analysis (RCFA) helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur. RCFA is equally important after a failure happens: it determines the impact of a failure, helps control the resultant damage, and identifies the steps for preventing future problems. Root Cause Failure Analysis: A Guide to Improve Plant Reliability offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to perform industrial RCFA investigations. This comprehensive resource describes the methodology of RCFA and provides multiple techniques and industry practices for identifying, predicting, and evaluating equipment failures. Divided into two parts, the text first introduces Root Cause Analysis, explains the failure analysis process, and discusses the management of both human and latent error. The second part focuses on failure analysis of various components such as bolted joints, mechanical seals, steam traps, gearboxes, bearings, couplings, pumps, and compressors. This authoritative volume: Illustrates how failures are associated with part integrity, a complete system, or the execution of an engineering process Describes how proper design, operation, and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5-Why RCFA, fault tree analysis, Pareto charts, and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application, Root Cause Failure Analysis: A Guide to Improve Plant Reliability is an important reference and guide for industrial professionals, including process plant engineers, planning managers, operation and maintenance engineers, process designers, chemical engineers, and instrument engineers. It is also a valuable text for researchers, instructors, and students in relevant areas of engineering and science.

The ASQ Pocket Guide to Root Cause Analysis National Academies Press This book presents the outcomes of the 16th International Conference on

Software Engineering, Artificial Intelligence Research, Management and Applications (SERA 2018), which was held in Kunming, China on June 13– 15, 2018. The aim of the conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the various fields of computer science, to share their experiences, and to exchange new ideas and information in a meaningful way. The book includes findings on all aspects (theory, applications and tools) of computer and information science, and discusses related practical challenges and the solutions adopted to solve them. The conference organizers selected the best papers from those accepted for presentation. The papers were chosen based on review scores submitted by members of the program committee and underwent a further rigorous round of review. From this second round, 13 of the conference's most promising papers were then published in this Springer (SCI) book and not the conference proceedings. We eagerly await the important contributions that we know these authors will make to the field of computer and information science.

Six Sigma John Wiley & Sons

This book constitutes the refereed proceedings of the 19th International Conference on Advanced Information Systems Engineering, CAiSE 2007, held in Trondheim, Norway in June 2007. It covers ontologies, extended enterprises, information integration, service-oriented architecture, strategic alignment, requirements, process modeling, method engineering, novel applications, participative modeling, and process-aware information systems.

Productivity and Reliability-Based Maintenance Management Jones & Bartlett Publishers

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 PROACTOnDemandSM 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.