

Anything with potential to adversely impact objectives when released or applied against an asset. Eg: Flammable substances, explosives, bio-hazards, malware.

indication of something impending that could 'attack' the system. Includes strategic threats such as a regional conflict or operational threats such as cyber attack

Any effect on assets or objectives, whether adverse or beneficial, wholly or partially resulting (in this context) from a security event or incident.

Collective sum of all impacts. Includes long term & indirect combined health, economic, and psychological impacts.

**SOURCE**

**HAZARD**

**THREATS**

**Risk Event**

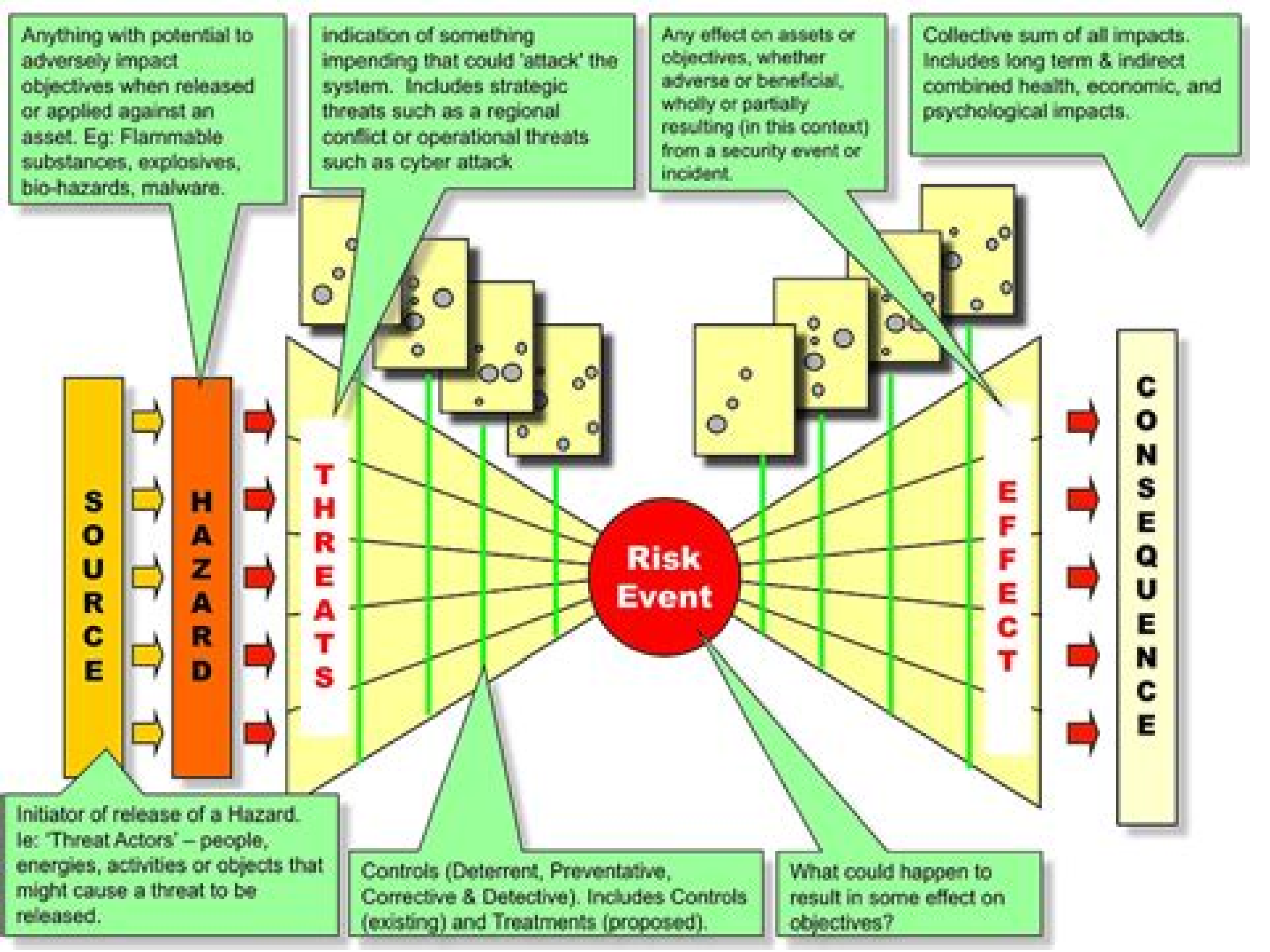
**EFFECT**

**CONSEQUENCE**

Initiator of release of a Hazard. I.e: 'Threat Actors' – people, energies, activities or objects that might cause a threat to be released.

Controls (Deterrent, Preventative, Corrective & Detective). Includes Controls (existing) and Treatments (proposed).

What could happen to result in some effect on objectives?



# Sample Bow Tie Diagram

**Camilla Rothe**



## **Sample Bow Tie Diagram:**

**Bow Ties in Process Safety and Environmental Management** Anjani Ravi Kiran Gollakota, Sneha Gautam, Chi-Min Shu, 2021-12-29 *Bow Ties in Process Safety and Environmental Management Current Trends and Future Perspectives* aims to combine the process safety aspects and the potential dangers to the ecology including the source of the contamination and especially the unbalanced utilization of toxic chemicals in process industries It also covers a broad spectrum of industrial process safety environmental pollution factors dangers to land water air and living species remediation technologies traditional and futuristic approaches pollutant degradation through numerical modelling and physicochemical characteristics of the chemicals and their thermal analysis It also provides the mandated safety data sheets already available and suggestions for the improvement of industrial specifications Discusses detailed aspects of process safety and environmental impact from a theoretical and practical perspective Covers detailed procedures of environmental modeling concepts Explores forensic investigation sequences during the incident Proposes futuristic approaches towards risk assessment and management Includes real time case studies with complexities and solutions This book is written for researchers graduate students and professionals involved in chemical engineering environmental engineering and process safety engineering

**Bow Ties in Risk Management** CCPS (Center for Chemical Process Safety), 2018-08-31 **AN AUTHORITATIVE GUIDE THAT EXPLAINS THE EFFECTIVENESS AND IMPLEMENTATION OF BOW TIE ANALYSIS A QUALITATIVE RISK ASSESSMENT AND BARRIER MANAGEMENT METHODOLOGY** From a collaborative effort of the Center for Chemical Process Safety CCPS and the Energy Institute EI comes an invaluable book that puts the focus on a specific qualitative risk management methodology bow tie barrier analysis The book contains practical advice for conducting an effective bow tie analysis and offers guidance for creating bow tie diagrams for process safety and risk management *Bow Ties in Risk Management* clearly shows how bow tie analysis and diagrams fit into an overall process safety and risk management framework Implementing the methods outlined in this book will improve the quality of bow tie analysis and bow tie diagrams across an organization and the industry This important guide Explains the proven concept of bow tie barrier analysis for the preventing and mitigation of incident pathways especially related to major accidents Shows how to avoid common pitfalls and is filled with real world examples Explains the practical application of the bow tie method throughout an organization Reveals how to treat human and organizational factors in a sound and practical manner Includes additional material available online Although this book is written primarily for anyone involved with or responsible for managing process safety risks this book is applicable to anyone using bow tie risk management practices in other safety and environmental or Enterprise Risk Management applications It is designed for a wide audience from beginners with little to no background in barrier management to experienced professionals who may already be familiar with bow ties their elements the methodology and their relation to risk management The missions of both the CCPS and EI include developing and disseminating knowledge

skills and good practices to protect people property and the environment by bringing the best knowledge and practices to industry academia governments and the public around the world through collective wisdom tools training and expertise The CCPS has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 30 years The EI s Technical Work Program addresses the depth and breadth of the energy sector from fuels and fuels distribution to health and safety sustainability and the environment The EI program provides cost effective value adding knowledge on key current and future international issues affecting those in the energy sector

*Bow-Tie Industrial Risk Management Across Sectors* Luca Fiorentini,2021-05-19 BOW TIE INDUSTRIAL RISK MANAGEMENT ACROSS SECTORS Explore an approachable but rigorous treatment of systematic barrier based approaches to risk management and failure analysis In Bow Tie Industrial Risk Management Across Sectors A Barrier Based Approach accomplished researcher and author Luca Fiorentini delivers a practical guide to risk management tools with a particular emphasis on a systematic barrier based approach called bow tie The book includes discussions of two barrier based methods Bow Tie and Layers of Protection Analysis LOPA for risk assessment and one barrier based method for incident analysis Barrier Failure Analysis BFA The author also describes a traditional method Root Cause Analysis and three quantitative methods FMEA FMECA Fault Tree FTA and Event Tree ETA with a discussion about their link with barriers Written from the ground up to be in full compliance with recent ISO 31000 standards on enterprise risk management and containing several case studies and examples from a variety of industries Bow Tie Industrial Risk Management Across Sectors also contains discussions of international standards dealing with common risks faced by organizations including occupational health and safety industrial safety functional safety environmental quality business continuity asset integrity and information security Readers will also benefit from the inclusion of A thorough introduction to the Bow Tie method including its practical application in risk management workflow from ISO 31000 the history of Bow Tie related methods and the application of Bow Tie in qualitative and quantitative ways An exploration of Barrier Failure Analysis including events timelines barriers causation paths and multi level causes A practical discussion of how to build a Barrier Failure Analysis including fact finding event chaining identifying barriers assessing barrier states causation analysis and recommendations A concise treatment of Bow Tie construction workflow including a step by step guide Perfect for engineers and other professionals working in risk management Bow Tie Industrial Risk Management Across Sectors A Barrier Based Approach will also earn a place in the libraries of advanced undergraduate and graduate students studying risk management and seeking a one stop reference on the bow tie approach and barrier based methods

*Graphical Models for Security* Peng Liu,Sjouke Mauw,Ketil Stolen,2018-02-20 This book constitutes revised selected papers from the 4th International Workshop on Graphical Models for Security GramSec 2017 held in Santa Barbara CA USA in August 2017 The 5 full and 4 short papers presented in this volume were carefully reviewed and selected from 19 submissions The book also contains one invited paper from the WISER project The contributions deal with the latest research

and developments on graphical models for security      *Process Safety in Upstream Oil and Gas* CCPS (Center for Chemical Process Safety),2021-04-06 The book makes the case for process safety and provides a brief overview of the upstream industry and of CCPS Risk Based Process Safety The majority of the book focuses on the concepts of implementing process safety in wells onshore offshore and projects Topics include Overview of Upstream Operations Overview of Risk Based Process Safety RBPS Application of RBPS in Drilling Completions Work Overs Interventions Application of RBPS in Onshore Production Application of RBPS in Offshore Production Application of RBPS to Engineering Design Installation and Construction Future Developments in the Field      *Guidelines for Process Safety Knowledge Management* CCPS (Center for Chemical Process Safety),2024-03-12 Use this guideline to develop an effective Process Safety Knowledge Management system When managing the risks of hazardous materials and energies a well developed process safety program is critical for maintaining a healthy workforce for protecting the environment and for sustaining the business The Center for Chemical Process Safety CCPS has identified Process Knowledge Management as one of its twenty Elements in its Risk Based Process Safety RBPS approach With an effective Process Safety Knowledge Management PSKM system an organization will be able to capture organize maintain and access its technical engineering and administrative information Thus an effective PSKM system will help an organization successfully manage its risks This book provides a set of comprehensive guidelines for implementing a Process Safety Knowledge Management PSKM system which will help an organization improve its process safety performance The book begins with a discussion on the characteristics of a PSKM system Then it describes the underlying factors for successful implementation and ends with guidance on overcoming common implementation difficulties Produced by a leading global process safety organization this book is essential for any organization looking to ensure that systems are in place to sustain their process safety knowledge during the life of the process *Guidelines for Process Safety Knowledge Management* readers will also find Case studies throughout the book with PSKM related lessons Detailed discussions of how a PSKM system helps cultivate leadership improves organizational culture and involves employees A business case for PSKM demonstrating the benefits to the business *Guidelines for Process Safety Knowledge Management* is ideal for process safety professionals engineering managers facility managers maintenance managers production managers and others responsible for creating or managing their process safety knowledge management systems      **Guide for Making Acute Risk Decisions** CCPS (Center for Chemical Process Safety),2019-10-15 This book presents a guidance on a large range of decision aids for risk analysts and decision makers in industry so that vital decisions can be made in a more consistent logical and rigorous manner It provides good industry practices on how risk decision making is conducted in the chemical industry from many risk information sources as well as all the elements that need to be addressed to ensure good decisions are being made Topics Include Identifying Risk Decisions A Risk Decision Strategy for Process Safety Case Studies in Risk Decision Making Failures Guidance on Selecting Decision Aids Templates for Decision Making in Risk Based Process

Safety Understanding Process Hazards Worst Possible Consequences Management of Change as an Exercise in Risk Identification Inherently Safer Design as an Exercise in Risk Tradeoff Analysis Using LOPA and Risk Matrices in Risk Decisions Using CPQRA and Safety Risk Criteria in Risk Decisions Group Decision Making Avoiding Decision Traps Documentation of Process Safety Risk Decisions

**Computer Security** Sokratis K. Katsikas, Frédéric Cuppens, Nora Cuppens, Costas Lambrinouidakis, Annie Antón, Stefanos Gritzalis, John Mylopoulos, Christos Kalloniatis, 2019-01-30 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Workshop on the Security of Industrial Control Systems and Cyber Physical Systems CyberICPS 2018 and the Second International Workshop on Security and Privacy Requirements Engineering SECPRE 2018 held in Barcelona Spain in September 2018 in conjunction with the 23rd European Symposium on Research in Computer Security ESORICS 2018 The CyberICPS Workshop received 15 submissions from which 8 full papers were selected for presentation They cover topics related to threats vulnerabilities and risks that cyber physical systems and industrial control systems face cyber attacks that may be launched against such systems and ways of detecting and responding to such attacks From the SECPRE Workshop 5 full papers out of 11 submissions are included The selected papers deal with aspects of security and privacy requirements assurance and evaluation and security requirements elicitation and modelling

**Industrial Security** David L. Russell, Pieter C. Arlow, 2015-04-20 A comprehensive and practical guide to security organization and planning in industrial plants Features Basic definitions related to plant security Features Countermeasures and response methods Features Facilities and equipment and security organization Topics covered are applicable to multiple types of industrial plants Illustrates practical techniques for assessing and evaluating financial and corporate risks

**Process Safety for Engineers** CCPS (Center for Chemical Process Safety), 2022-04-12 Process Safety for Engineers Familiarizes an engineer new to process safety with the concept of process safety management In this significantly revised second edition of Process Safety for Engineers An Introduction CCPS delivers a comprehensive book showing how Process Safety concepts are used to reduce operational risks Students new engineers and others new to process safety will benefit from this book In this updated edition each chapter begins with a detailed incident case study provides steps that help address issues and contains problem sets which can be assigned to students The second edition covers Process Safety including an overview of CCPS Risk Based Process Safety Hazards specifically fire and explosion reactive chemical and toxicity Design considerations for hazard control including Hazard Identification and Risk Analysis Management of operational risk including management of change In addition the book presents how Process Safety performance is monitored and sustained The associated online resources are linked to the latest online CCPS resources and lectures

**People and Rail Systems** John R. Wilson, Beverley Norris, Ann Mills, 2016-12-05 Following on from 2005's Rail Human Factors Supporting the Integrated Railway this book brings together an even broader range of academics and practitioners from around the world to share their expertise and experience on rail

human factors The content is both comprehensive and cutting edge featuring more than 55 chapters addressing the following topics Passengers and public Driver performance and workload Driving and cognition Train cab and interfaces simulation and design Routes signage signals and drivability Signalling and control of the railway Planning for the railway Engineering work and maintenance Level crossings Accidents and safety Human error and human reliability SPADs signals passed at danger Human factors integration and standards Impairments to performance Staff competencies and training People and Rail Systems Human Factors at the Heart of the Railway will be invaluable for all those concerned with making railways safer more reliable of higher quality and more efficient It will be essential reading for policy makers researchers and industry around the world

**Designing for Human Reliability** Ronald W. McLeod, 2015-03-21 Industry underestimates the extent to which behaviour at work is influenced by the design of the working environment Designing for Human Reliability argues that greater awareness of the contribution of design to human error can significantly enhance HSE performance and improve return on investment Illustrated with many examples Designing for Human Reliability explores why work systems are designed and implemented such that design induced human error becomes more or less inevitable McLeod demonstrates how well understood psychological processes can lead people to make decisions and to take actions that otherwise seem impossible to understand Designing for Human Reliability sets out thirteen key elements to deliver the levels of human reliability expected to achieve the return on investment sought when decisions are made to invest in projects And it demonstrates how investigation of the human contribution to incidents can be improved by focusing on what companies expected and intended when they chose to rely on human performance as a barrier or control against incidents Recognise some hard truths of human performance and learn about the importance of applying the principles of Human Factors Engineering on capital projects Learn from analysis of real world incidents how differences between fast and slow styles of thinking can lead to human error in industrial processes Learn how controls and barrier against major incidents that rely on human performance can be strengthened throughout the design and development of assets and equipment

[Routledge Handbook of Environmental Impact Assessment](#) Kevin Hanna, 2022-04-10 Globally environmental impact assessment EIA is one of the most enduring and influential environmental management tools This handbook provides readers with a strong foundation for understanding the practice of EIA by outlining the different types of assessment while also providing a guide to best practice This collection deploys a research and practice based approach to the subject delivering an overview of EIA as an essential and practical tool of environmental protection planning and policy To best understand the most pertinent issues and challenges surrounding EIA today this volume draws together prominent researchers practitioners and young scholars who share their work and knowledge to cover two key parts The first part introduces EIA processes and best practices through analytical and critical chapters on the stages elements of the EIA process and different components and forms of assessment These provide examples that cover a wide range of assessment methods and cross cutting issues

including cumulative effects assessment social impact assessment Indigenous led assessment risk assessment climate change and gender based assessment The second part provides jurisdictional reviews of the European Union the US National Environmental Policy Act recent assessment reforms in Canada EIA in developing economies and the EIA context in England By providing a concise outline of the process followed by in depth illustrations of approaches methods and tools and case studies this book will be essential for students scholars and practitioners of environmental impact assessment

**Network Analysis and Tourism** Noel Scott, Rodolfo Baggio, Chris Cooper, 2008-06-09 This book aims to provide a comprehensive review of the contribution of network analysis to the understanding of tourism destinations and organizations Theoretical and methodological aspects are discussed along with a series of applications While this is a relatively new approach in the tourism literature in other social and natural sciences network analysis has a long tradition and has provided important insights for the knowledge of the structure and the dynamics of many complex systems The study of network structures both from a quantitative and qualitative point of view can deliver a number of useful outcomes also for the analysis of tourism destinations and organizations

Handbook of Occupational Safety and Health S. Z. Mansdorf, 2019-04-01 A quick easy to consult source of practical overviews on wide ranging issues of concern for those responsible for the health and safety of workers This new and completely revised edition of the popular Handbook is an ideal go to resource for those who need to anticipate recognize evaluate and control conditions that can cause injury or illness to employees in the workplace Devised as a how to guide it offers a mix of theory and practice while adding new and timely topics to its core chapters including prevention by design product stewardship statistics for safety and health safety and health management systems safety and health management of international operations and EHS auditing The new edition of Handbook of Occupational Safety and Health has been rearranged into topic sections to better categorize the flow of the chapters Starting with a general introduction on management it works its way up from recognition of hazards to safety evaluations and risk assessment It continues on the health side beginning with chemical agents and ending with medical surveillance The book also offers sections covering normal control practices physical hazards and management approaches which focuses on legal issues and workers compensation Features new chapters on current developments like management systems prevention by design and statistics for safety and health Written by a number of pioneers in the safety and health field Offers fast overviews that enable individuals not formally trained in occupational safety to quickly get up to speed Presents many chapters in a how to format Featuring contributions from numerous experts in the field Handbook of Occupational Safety and Health 3rd Edition is an excellent tool for promoting and maintaining the physical mental and social well being of workers in all occupations and is important to a company s financial moral and legal welfare

**The ASQ Certified Manager of Quality/Organizational Excellence Handbook** Sandra L Furterer, Douglas C Wood, 2021-01-25 This handbook is a comprehensive reference designed to help professionals address organizational issues from the application of the basic principles of management to



the development of strategies needed to deal with today's technological and societal concerns. The fifth edition of the ASQ Certified Manager of Quality Organizational Excellence Handbook (CMQ/OE) has undergone some significant content changes in order to provide more clarity regarding the items in the body of knowledge (BoK). Examples have been updated to reflect more current perspectives and new topics introduced in the most recent BoK are included as well. This handbook addresses:

- Historical perspectives relating to the continued improvement of specific aspects of quality management.
- Key principles, concepts, and terminology.
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- Best practices describing recognized approaches for good quality management.
- Barriers to success, common problems you may encounter, and reasons why some quality initiatives fail.
- Guidance for preparation to take the CMQ/OE examination.

A well-organized reference, this handbook will certainly help individuals prepare for the ASQ CMQ/OE exam. It also serves as a practical day-to-day guide for any professional facing various quality management challenges.

**Man-Machine-Environment System Engineering** Shengzhao Long, Balbir S. Dhillon, 2019-08-16. These proceedings showcase the best papers selected from more than 500 submissions and introduce readers to the latest research topics and developmental trends in the theory and application of MMESE. The integrated research topic Man-Machine-Environment System Engineering (MMESE) was first established in China by Professor Shengzhao Long in 1981 with direct support from one of the greatest modern Chinese scientists, Xuesen Qian. In a letter to Long from October 22nd, 1993, Qian wrote: "You have created a very important modern science and technology in China. MMESE studies the optimum combination of man-machine-environment systems. In this system, man refers to the people in the workplace (e.g., operators, decision makers), machine is the general name for any object controlled by man, including tools, machinery, computers, systems, and technologies, and environment describes the specific working conditions under which man and machine interact (e.g., temperature, noise, vibration, hazardous gases, etc.). The three main goals of optimizing man-machine-environment systems are to ensure safety, efficiency, and economy." These proceedings present interdisciplinary studies on concepts and methods from physiology, psychology, system engineering, computer science, environmental science, management, education, and other related disciplines. They offer a valuable resource for all researchers and professionals whose work involves interdisciplinary areas touching on MMESE subjects.

**THz and Security Applications** Carlo Corsi, Fedir Sizov, 2014-05-06. These proceedings comprise invited papers from highly experienced researchers in THz technology and security applications. THz detection of explosives represents one of the most appealing technologies to have recently emerged in dealing with terrorist attacks encountered by civil security and military forces throughout the world. Discussed are the most advanced technologies and developments, the various points of operational strength and weaknesses, as well as suggestions and predictions, the best technological solutions to overcome current operational limits. The current status of various levels of cooling in THz detectors, sources, and associated electronics are also addressed. The goal was to provide a clear view on the current technologies available and the required advances needed in

order to achieve more efficient systems This goal was outlined in part by establishing the baseline of current uncertainty estimations in physics based modelling and the identification of key areas which require additional research and development

*Nutritional Care of the Patient with Gastrointestinal Disease* Alan L Buchman,2015-08-06 This evidence based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling

*Risk Management in Public-Private Partnerships* Mohammad Heydari,Kin Keung Lai,Zhou Xiaohu,2020-12-28 Public Private Partnership PPP is a channel through which the public sector can seek alternative funding and expertise from the private sector to procure public infrastructure Governments around the world are increasingly turning to Public Private Partnerships to deliver essential goods and services Unfortunately PPPs like any other public procurement can be at risk of corruption This book begins by looking at the basics of PPP and the challenges of the PPP process It then conceptualizes the vulnerability of various stages of Public Private Partnership models and corruption risk against the backdrop of contract theory principal agent theory and transaction cost economics The book also discusses potential control mechanisms The book also stresses the importance of good governance for PPP It outlines principles and procedures of project risk management PRM developed by a working party of the Association of Project Managers Finally the book concludes by proposing strategies and solutions to overcome the limitations and challenges of the current approach toward PPP

## Reviewing **Sample Bow Tie Diagram**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Sample Bow Tie Diagram**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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