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Over recent years, there has been a rapid expansion in the number of professionals requiring knowledge and skills in environmental management. Today, the Institute of Environmental Management and Assessment (IEMA) has over 15,000 members, while the Institution of Occupational Safety and Health (IOSH) recognises that thousands of its members now cover, health, safety and environment in their everyday remit. Essentials of environmental management provides a comprehensive introduction to the management of environmental issues. Clearly structured and illustrated, the book explains why and how organisations should manage their environmental

interactions at both strategic and operational levels. Now in its third edition, Essentials focuses on: The issues and principles underpinning environmental management The principal methods to determine priorities for action The key elements of an effective environmental system based on the 'plan, do, check and act' cycle (including ISO 14001) The main operational controls and approaches to continually improve performance Supply chain issues and environmental considerations Strategic environmental pressures and how to address them, including carbon management strategies How environmental management contributes to wider business concerns, the process of sustainable development and the corporate social responsibili-

ty agenda. The authors combine a broad training background with extensive practical experience of environmental management. Essentials provides a user-friendly framework which sets out the key principles and approaches that underpin this ever-growing professional discipline. The science of occupational hygiene is growing, as is awareness amongst Australian employers of the importance of minimising occupational health and safety risk. Occupational Hygiene and Risk Management offers an innovative approach to learning about the practice and principles of occupational hygiene and managing risk in the workplace. This new edition of this widely used textbook has been extensively updated with new material on legislation

and Australian and New Zealand standards. It also includes expanded sections on risk analysis and management. The theory of occupational hygiene is brought to life through case studies, illustrations and practical examples. Occupational hygiene aims to minimise ill-health from exposure to hazardous events by a process of identification, evaluation and control. These three stages form the foundation of this textbook as physical, psychological and emotional health risks are examined across the following topics: * Hazard identification * Dusts and particulate * Metals * Chemical contaminants * Noise and vibration * Heat and cold * Radiation and pressure * Biological hazards * Ergonomics * Risk analysis * Control * Risk management Occupational Hygiene and Risk Management is accompanied by a website with discussion questions, case studies, further readings and teacher resources, creating an invaluable resource for students and professionals.

Visit

www.allenandunwin.com/OHRM

This textbook is directly aligned to the NE-BOSH National Certificate in Fire Safety and Risk Management, with each element of the syllabus explained in detail. Each

chapter guides the student through the syllabus with references to legal frameworks and guidelines. Images, tables, case studies and key information are highlighted within the text to make learning more productive. Covering fire behaviour, safety, management, risk assessment, prevention and the changes to HSG65, the book can also be used as a daily reference by professionals. Written by experts in the field of fire safety Complete coverage that goes beyond the syllabus content making it a useful resource after study Illustrated throughout to enhance understanding

Provides a thorough overview of systematic methods for reducing risks encountered in diverse work places Filled with more theory, numerous case examples, and references to new material than the original text, this latest edition of a highly acclaimed book on occupational safety and health includes substantial updates and expanded material on management systems, risk assessment methods, and OSH-relevant concepts, principles, and models. Risk-Reduction Methods for Occupational Safety and Health is organized into five parts: background; analysis methods; pro-

grammatic methods for managing risk; risk reduction for energy sources; and risk reduction for other than energy sources. It comprehensively covers both system safety methods and OSH management methods applicable to occupational health and safety. Suitable for worldwide applications, the author's approach avoids reliance on the thousands of rules, codes, and standards by focusing on understanding hazards and reducing risks using strategies and tactics. Includes more content on methods for reducing risks, citations of recent research, and deeper coverage of OSH-relevant concepts, theories, and models Merges methods and principles traditionally associated with occupational hygiene, ergonomics, and safety Provides substantial updates on management systems and theories of occupational incidents, and includes new case studies in many chapters to help demonstrate the "real world" need for identifying and implementing risk-reduction strategies Addresses occupational risks that go beyond current regulations and standards, taking an international approach by stressing risk-reduction strategies Supports adoption of the book for university courses by provid-

ing chapter-specific learning exercises and support materials for professors Risk-Reduction Methods for Occupational Safety and Health is ideal for safety professionals, system safety engineers, safety engineers, industrial hygienists, ergonomists, and anyone with OSH responsibilities. It is also an excellent resource for students preparing for a career in OSH.

The field of occupational health and safety constantly changes, especially as it pertains to biomedical research. New infectious hazards are of particular importance at nonhuman-primate facilities. For example, the discovery that B virus can be transmitted via a splash on a mucous membrane raises new concerns that must be addressed, as does the discovery of the Reston strain of Ebola virus in import quarantine facilities in the U.S. The risk of such infectious hazards is best managed through a flexible and comprehensive Occupational Health and Safety Program (OHSP) that can identify and mitigate potential hazards. Occupational Health and Safety in the Care and Use of Nonhuman Primates is intended as a reference for vivarium managers, veterinarians, researchers, safety professionals, and others who are in-

involved in developing or implementing an OHSP that deals with nonhuman primates. The book lists the important features of an OHSP and provides the tools necessary for informed decision-making in developing an optimal program that meets all particular institutional needs.

Implementing safety practices in healthcare saves lives and improves the quality of care: it is therefore vital to apply good clinical practices, such as the WHO surgical checklist, to adopt the most appropriate measures for the prevention of assistance-related risks, and to identify the potential ones using tools such as reporting & learning systems. The culture of safety in the care environment and of human factors influencing it should be developed from the beginning of medical studies and in the first years of professional practice, in order to have the maximum impact on clinicians' and nurses' behavior. Medical errors tend to vary with the level of proficiency and experience, and this must be taken into account in adverse events prevention. Human factors assume a decisive importance in resilient organizations, and an understanding of risk control and containment is fundamental for all medical and

surgical specialties. This open access book offers recommendations and examples of how to improve patient safety by changing practices, introducing organizational and technological innovations, and creating effective, patient-centered, timely, efficient, and equitable care systems, in order to spread the quality and patient safety culture among the new generation of healthcare professionals, and is intended for residents and young professionals in different clinical specialties.

This study examines the impact of a system of enforced self-regulation on the corporate life of British Railways. The book raises important questions about how workplace risks are managed and what influence the law can have.

Health and Safety: Risk Management is the clearest and most comprehensive book on risk management available today. This newly revised fifth edition takes into account new developments in legislation, standards and good practice. ISO 45001, the international health and safety management system standard, is given comprehensive treatment, and the latest ISO 9004 and ISO 19011 have also been ad-

dressed. The book is divided into four main parts. Part 1.1 begins with a basic introduction to the techniques of health and safety risk management and continues with a description of ISO 45001. Part 1.2 covers basic human factors including how the sense organs work and the psychology of the individual. Part 2.1 deals with more advanced techniques of risk management including advanced incident investigation, audit and risk assessment, and Part 2.2 covers a range of advanced human factors topics including human error and decision making. This authoritative treatment of health and safety risk management is essential reading for both students working towards degrees, diplomas and postgraduate or vocational qualifications, and experienced health and safety professionals, who will find it invaluable as a reference. *Managing Health and Safety in a Small Business* is an up-to-date guide, reflecting current concerns about how to identify and manage health and safety risks in a small business, with a broad focus on practical guidance wherever your business is based globally. It covers all the basic principles of assessing risks without quoting specific regulations that are likely to change

depending on your location. With additional checklists and suggestions throughout, it can be used by individual business owners, consultants or business advisors working with them, or as a basic introduction to the key elements of risk assessment.

The third edition of a bestseller, *Human Safety and Risk Management: A Psychological Perspective* incorporates a decade of new research and development to provide you with a comprehensive and contemporary guide to the psychology of risk and workplace safety. A major enhancement is reflected in the new subtitle for the book, *A Psychological Perspective*, which highlights both the expertise of the authors and also confirms the predominantly psychological orientation of the revised text. New in the Third Edition: State-of-the-art theory reviews, research findings, and practical applications New chapter on impact that sensor technologies have on approaches to safety and risk in contemporary society Enhanced chapters on key issues around sensing danger, risk perception, error detection, safety culture, risk management, leadership, teams, and stress management This book discusses

how people perceive and manage risks and how to make the workplace a safer place. It examines the influence of individual factors on safety, as well as team and organizational factors at work, from a psychological perspective. It also highlights changes in safety due to the changing workplace, globalization, and managing employees' safety and health beyond the workplace — a challenge that many organizations have yet to address. Reflecting current scientific research across a range of disciplines as it applies to human safety and risk management, this book helps you meet the challenges posed by the rapidly evolving workplace.

This book aims to encourage a more reflective, multidisciplinary approach to public safety, and the 'reenfranchisement' of those affected by this new phenomenon. Over the past decade health and safety has become a major issue of public interest. There are countless stories of health and safety activities interfering with public life, preventing some beneficial activity from taking place – even creating absurd or dangerous situations. On the one hand, risk assessment, properly conducted, is highly beneficial – it saves lives and pre-

vents injuries. But on the other, it can damage public life. Why has this come about, and does it have to be like that? The authors examine the origins of the problem, look critically at the tools used by safety assessors and their underlying assumptions, and consider important differences between public life and industry (where the approaches largely originated). They illuminate the whole with an analysis of legal requirements, attitudes of stakeholders, and recent research on risk perception and decision making. The result is a profound and important analysis of risk and safety culture and a framework for managing public safety more effectively.

The issue of risk should be embedded into the mindset of every engineer and manager to improve safety and dependability. Companies can be held accountable through law when a gross failing in health and safety management has fatal consequences. Here risk management, the organisational structure required and the main factors needed for its successful execution are explored. What risks must be managed as a legal requirement? How is risk quantified? What methods can be used to reduce risk? Such questions are ad-

dressed, alongside case histories of disasters to illustrate failures in risk management. In an easy-to-read and accessible way, The risk management of safety and dependability presents the key factors involved in successful risk management, so that even non-experts in small and medium-sized organisations, as well as engineers and managers, can apply sound safety and dependability principles. Complies with the recommendations of the Engineering Technology Board Assesses ways of recognising hazards and procedures for reducing risk in the design of processes, plant and machinery Provides detailed accounts of three major disasters and describes the lessons to be learnt in relation to risk management

Reflecting a decade's worth of changes, Human Safety and Risk Management, Second Edition contains new chapters addressing safety culture and models of risk as well as an extensive re-working of the material from the earlier edition. Examining a wide range of approaches to risk, the authors define safety culture and review theoretical models that elucidate mechanisms linking safety culture with safety

performance. Filled with practical examples and case studies and drawing on a range of disciplines, the book explores individual differences and the many ways in which human beings are alike within a risk and safety context. It delineates a risk management approach that includes a range of techniques such as risk assessment, safety audit, and safety interventions. The authors address concepts central to workplace safety such as attitudes and their link with behavior. They discuss managing behavior in work environments including key functions and benefits of groups, factors influencing team effectiveness, and barriers to effectiveness such as group-think.

The costs of failure to manage health and safety successfully are high. This manual was prepared by HSE's Accident Prevention Advisory Unit as a practical guide for directors, managers and health and safety professionals intent on improving health and safety performance. The advice given here will be increasingly used by HSE inspectors as a basis for testing the performance of organizations against the general duties of the Health and Safety at Work etc Act 1974.

"Applies the concept of risk management to occupational health and safety and gives guidance on each step in the process. It aims to provide a platform on which a risk management program can be built and maintained" -- p.1.

Working in a stressful environment not only increases the risk of physical illness or distress, but also increases the likelihood of workplace accidents. While legislation provides some guidelines for risk assessment of physical hazards, there remains limited guidance on the risks of psychosocial hazards, such as occupational stress. This book takes the risk management approach to stress evaluation in the workplace, offering practical guidelines for the audit, assessment and mitigation of workplace stressors. Based on research and case studies, this book provides a comprehensive source of theoretical and practical information for students and practitioners alike. It includes chapters on: * environmental stress factors * psychological stress factors * work-related accidents * job stress evaluation methods With its up-to-date approach to a fascinating area of study, this is key reading for all students

of organizational psychology and those responsible for workplace safety.

Chaperones -- Domiciliary Visiting -- Locums and Risk -- Managing Patient Expectations -- Risk and Finance -- Getting to Grips with Communication -- Information Technology and Risk Management -- Reviewing the Practice -- Health and Safety 1 -- Health and Safety 2 -- Employment Issues and Risk -- Risk and the Media -- Clinical Governance -- Annex - Stop Press! -- Index -- Back Cover

This book is the most comprehensive review of health and safety in half a century. Most organisational approaches to health and safety are based on the methodology developed during the 1970s, and despite the workplace changing beyond recognition since that time, these approaches have remained untouched. Quantum Safety will develop a new understanding fit for the modern workplace. Quantum Safety is an approach that is part of the "new view" debate. There have been a number of other new approaches to health and safety in recent years, and while they all have merit and improve understanding to help create the optimal, safe working environment, they have failed to significantly cre-

ate the change desired. These approaches are often flawed at the philosophical or conceptual level or propose a solution without a pathway to implement the principles in safety-critical environments. Quantum Safety: The New Approach to Risk Management for the Complex Workplace is founded on a wholesale critical analysis of the conceptual foundations of health and safety before translating the revised principles into a tangible methodology. Central to the development of Quantum Safety is the application of Complexity Science. The traditional approach to health and safety is considered to be Newtonian - it uses linear models and deterministic analysis. Quantum Safety, due to the full consideration of Complexity Science, introduces multidimensional models and develops analysis based on probabilities. Crucially, this does not render Newtonian methodologies as worthless - in the same manner that Newtonian physics was able to take mankind to the moon, but required the quantum understanding within computers to make it possible - Quantum Safety provides the mechanisms to complete organisations' safety-based journeys. The new mechanisms are fully developed for the reader

at both macro and micro levels. How an organisation measures safety and what it values are reset and re-examined. How we investigate adverse events and the consequential actions taken with employees to develop a true Just Culture within a high-performing culture are also completely revised. Essentially, Quantum Safety creates a pathway for understanding health and safety in the complex modern world. To achieve that, new models are introduced to replace the dated, simple tools and a new language is developed to communicate this powerful approach. It will help propel an organisation from considering safety within a concept of industrialised failure avoidance to valuing safety as an integrated aspect of high performance.

For Management and Economic courses with Risk and Strategic Management modules, this book places the theory and practice of occupational health and safety firmly within a strategic business context by making health safety an equal partner to other strategic business risks.

Dynamic Risk Assessment is the key tool to support a holistic risk management framework. This book aims to help employ-

ers, managers and staff alike to understand how they can effectively integrate dynamic risk assessment into business management processes and systems to improve safety. With tips, examples and solutions throughout, this multi-disciplinary text delivers an effective and comprehensive approach to help you to understand how dynamic risk assessment (DRA) can be integrated into predictive (PRA) and strategic risk assessments (SRA) to enhance your organization's effectiveness. The 3-Level Risk Management Model fully supports and complements the systematic 'five steps to risk assessment' process. A multi-disciplinary approach to dynamic risk assessment that covers workers operating in teams and those working alone within the public, private and third sectors. Contains practical examples, tips and case studies drawn from a wide range of organizations. The book comes with access to downloadable materials from an accompanying website at: www.routledge.com/cw/dynamic-risk-assessment

The book contains a lot of information and instructions for safety and risk prevention. The principles in this book can be used to

analyze job risks to protect workers' lives. It includes the requirements of the OSHA standard and best practices used in the industry. This is a great book to add to your safety reference library and use when training new safety professionals on the job.

The Fire Safety and Risk Management Revision Guide: for the NEBOSH Fire Certificate is the perfect revision aid for students preparing to take their NEBOSH National Certificate in Fire Safety and Risk Management. As well as being a handy companion volume to the Fire Protection Association textbook Fire Safety and Risk Management: for the NEBOSH National Certificate in Fire Safety and Risk Management, it will also serve as a useful aide-mémoire for those in fire safety roles. The book: provides practical revision guidance and strategies for students; highlights the key information for each learning outcome of the current NEBOSH syllabus; gives students opportunities to test their knowledge based on NEBOSH-style questions and additional exercises; provides details of publically available guidance documents that students will be able to refer

to. The revision guide is fully aligned to the current NEBOSH syllabus, providing complete coverage in bite-sized chunks, helping students to learn and memorise the most important topics. Throughout the book, the guide refers back to the Fire Safety and Risk Management textbook, helping students to consolidate their learning.

This is a practical book for health and IT professionals who need to ensure that patient safety is prioritized in the design and implementation of clinical information technology. Healthcare professionals are increasingly reliant on information technology to deliver care and inform their clinical decision making. Health IT provides enormous benefits in efficiency, communication and decision making. However a number of high-profile UK and US studies have concluded that when Health IT is poorly designed or sub-optimally implemented then patient safety can be compromised. Manufacturers and healthcare organizations are increasingly required to demonstrate that their Health IT solutions are proactively assured. Surprisingly the majority of systems are not subject to regulation so there is little in the way of practical guidance as to

how risk management can be achieved. The book fills that gap. The author, a doctor and IT professional, harnesses his two decades of experience to characterize the hazards that health technology can introduce. Risk can never be eliminated but by drawing on lessons from other safety-critical industries the book systematically sets out how clinical risk can be strategically controlled. The book proposes the employment of a Safety Case to articulate and justify residual risk so that not only is risk proactively managed but it is seen to be managed. These simple techniques drive product quality and allow a technology's benefits to be realized without compromising patient safety.

This book provides a step-by-step guide to technical and operational integrity audits which has become invaluable for senior management and auditors alike. This book: Shows practitioners and students how to carry out internal audits to the key international health and safety, environment and quality standards Contains over 20 new case studies, 20 additional A-Factors, and superb new illustrations Includes checklists, forms and practical tips to make learning easier. With the addition of

colour, Health and Safety Environment and Quality Audits delivers a powerful and proven approach to auditing business-critical risk areas. It covers each of the aspects that need to be taken into account for a successful risk-based audit to international or company standards and is an important resource for auditors and lead auditors, managers, HSEQ professionals, and others with a critical interest in governance, assurance and organizational improvement. The companion website at www.routledge.com/cw/asbury contains relevant articles, example risk management frameworks, and a video by the author explaining the key aspects of the book.

The management of risk and safety is not simply a matter of trying to remove risks, but is necessary and vital to these industries. Sensible risk management is concerned with making the most of the positive opportunities or reducing the negative risks. This book shows how the absence of explicit risk practices is not necessarily an absence of risk management, and how many existing operational and strategic practices can be understood as part of a process of risk and safety management.

Its main objective is to develop greater clarity in the communication of risks and the development of safety programmes, illustrating how organisations can use a single language of risk, relevant for all levels of management and areas of operation.

The industrial workplace should be an environmentally sound and reliable operation with established safety and health policies and practices. Most companies work hard to achieve this goal by having Industrial Safety and Risk Management programs in place. The key benefits of a first-class IS-RM program are the reduction of risk to people, environment, assets and production for company personnel, contractors, the public and investors. Professors Wilson and McCutcheon offer an integrated approach to industrial safety and risk management and explain the elements of practice required to manage health, safety and environmental risk effectively. Contributors from industry and government add their expertise to provide a comprehensive examination of issues concerning industrial health, safety and risk management programs; risk assessment and management; causation models and systematic incident investigation; and human fac-

tors. Case studies of industrial disasters offer lessons in how to proactively reduce risks in operations or projects. Industrial Safety and Risk Management provides a solid base for students and industry to implement, manage and improve their understanding and knowledge of safety and risk management programs. It provides an excellent training program for new professionals, junior managers and supervisors working in industry.

Health and Safety: Risk Management is the clearest and most comprehensive book on risk management available today. This newly revised fourth edition integrates new developments in legislation, standards and practice, and incorporates up-to-date information for qualification syllabuses. The book is divided into four main parts. Part 1.1 is primarily concerned with the fundamentals of risk management and is relevant for all students of health and safety, while Part 1.2 covers the required basic human factors material required for health and safety qualifications. Part 2.1 deals with the more advanced aspects of risk management, while Part 2.2 covers the more advanced human factors material required by those studying for qualifica-

tions in health and safety. This authoritative treatment of risk management is essential reading for both students working towards degrees, diplomas and postgraduate or vocational qualifications in health and safety and experienced health and safety professionals, who will find it invaluable as a reference.

The Construction (Design and Management) Regulations 2007 (CDM Regulations 2007) is a revision of a major piece of legislation within the wide portfolio of construction-related legislation. It seeks to improve the long term health and safety performance of the UK construction industry, with ownership of health and safety proactively undertaken by the integrated project team. Good design has always embraced health and safety issues and design teams remain essential players as well as key contributors and communicators in matters of health and safety management. Designers have a legal responsibility to ensure that their designs account for health and safety at all stages within the holistic envelope of construction. Design Risk Management: Contribution to Health and Safety gives detailed guidance to construction

practitioners with design responsibility on how to identify and manage health and safety risks, and on the design strategies to be followed. It seeks to focus on accountability with due emphasis on the minimisation of unnecessary bureaucracy and offers documentation trails that provide an insight to managing risk and not paperwork.

Subsequently it offers a process by which designers can discharge their duties in compliance with the CDM Regulations.

Surpassing the standard set by the first edition, *Healthcare Hazard Control and Safety Management, Second Edition* presents expansive coverage for healthcare professionals serving in safety, occupational health, hazard materials management,

quality improvement, and risk management positions. Comprehensive in scope, the book covers all major issues i

Offers guidance for employers and self employed people in assessing risks in the workplace. This book is suitable for firms in the commercial, service and light industrial sectors.