



Occupational Safety and Health for Technologists, Engineers, and Managers

By David L. Goetsch

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Known for its comprehensive coverage, this book covers all aspects of occupational safety and health in today's global workplace. The book follows a logical sequence that provides a historical perspective and overview, covers the laws and regulations, discusses the human element, examines hazard assessment, prevention, and control, and covers management of safety and health. This edition features updated OSHA standards and contemporary topics such as safety culture, safety's role in global competitiveness, workplace violence, natural disasters and terrorism. Includes the most up-to-date coverage of occupational safety and health, including: The global impact of accidents and injuries; Obesity and accident causation; Common accident investigation mistakes to avoid; Participatory ergonomics; Preventing arc flash injuries; Emergency planning for workers with disabilities; Safely resuming business after a disaster; Occupational safety and health management systems (OSHMS); Safety as a promotion tool. An excellent reference for all industries.

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Editorial Review

From the Back Cover

Reflecting the dynamics of global competition, this state-of-the-art guide addresses the key issues relating specifically to modern workplace environments in the safety and health professions, and draws immediate connections between principles and their practices in the real world. Interjecting samples of real-life safety dilemmas throughout, the book concentrates on essential 'bottom-line' information, and presents material in an easy-to-use, check-list style. It treats such topics as: the OSHAct and OSHA; standards and codes; laws and liability; life safety; computers, robots, and automation; bloodborne pathogens in the workplace, and more. Third Edition highlights include the addition of at least one safety fact or safety myth to each chapter; fresh insights into repetitive strain/soft tissue injuries and on estimating the cost of accidents; OSHA Fall Protection standard and forklift safety as well as new material on ladder safety, footwear/foot protection, and proper lifting techniques; the latest on electromagnetic fields in the workplace; ISO 14000; plus a new chapter on the critical subject of workplace violence and the role of safety and health professionals in preventing it. Ideal for use in vocational-technical centers and corporate settings that offer programs, courses, workshops and/or seminars in Occupational Health and Safety.

About the Author

Dr. David Goetsch is Provost of the Joint Campus of the University of West Florida and Okaloosa-Walton College where he also serves as Professor of Quality and Safety Management. Before entering higher education full time in 1976, Dr. Goetsch worked in the private sector for eight years holding positions in engineering, quality management, and safety management. He also spent two year in the United States Marine Corps during the Viet Nam War. Upon entering higher education full time, Dr. Goetsch founded his own business consulting firm, David L. Goetsch and Associates. Through this firm, Dr. Goetsch continues to work with private sector companies providing them with consulting and training services in the areas of global competitiveness, quality, continual improvement, and safety.

Dr. Goetsch holds the following degrees: Associate of Science in Engineering Technology, Bachelor of Science in Industrial Technology, Master of Science in Business Management, Master of Science in Industrial Psychology, Master of Science in International Relations, Master of Science in Educational Leadership, and Ph.D. in Technical Education. His awards include: Outstanding Technical Program in the United States in 1984 as selected by the U.S. Department of Education; Outstanding Technical Educator of the Year in 1986 for the state of Florida; Outstanding Professor of the Year for the University of West Florida in 1982, 1983, 1984, and 1985; Economic Development Volunteer of the Year for Northwest Florida in 1992 and again in 1996; and Distinguished Alumnus of the University of West Florida.

Dr. Goetsch has written more than 40 books on various quality, safety, engineering, and business-related topics. All of his books are designed to help students, working professionals, or organizations continually improve their performance so as to be more competitive and more successful.

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BACKGROUND

The field of occupational safety and health has undergone significant change over the past two decades.

There are many reasons for this. Some of the more prominent include the following: technological changes that have introduced new hazards in the workplace; proliferation of health and safety legislation and corresponding regulations; increased pressure from regulatory agencies; realization by executives that workers in a safe and healthy workplace are typically more productive; health care and workers' compensation costs; increased pressure from environmental groups and the public; a growing interest in ethics and corporate responsibility; professionalization of health and safety occupations; increased pressure from labor organizations and employees in general; rapidly mounting costs associated with product safety and other types of litigation; and increasing incidents of workplace violence.

All of these factors, when taken together, have made the job of the modern safety and health professional more challenging and more important than it has ever been. These factors have also created a need for an up-to-date book on workplace safety and health that contains the latest information needed by people who will practice this profession in the age of global competition and rapid technological change.

WHY WAS THIS BOOK WRITTEN AND FOR WHOM?

This book was written to fulfill the need for an up-to-date practical teaching resource that focuses on the needs of modern safety and health professionals practicing in the workplace. It is intended for use in universities, colleges, community colleges, and corporate training settings that offer programs, courses, workshops, and/or seminars in occupational safety and health. Educators in such disciplines as industrial technology, manufacturing technology, industrial engineering, engineering technology, occupational safety, management, and supervision may find this book both valuable and easy to use. The direct, straightforward presentation of material focuses on making the theories and principles of occupational safety and health practical and useful in a real-world setting. Up-to-date research has been integrated throughout in a down-to-earth manner.

ORGANIZATION OF THE BOOK

The text contains thirty chapters, each focusing on a major area of concern for modern safety and health professionals. The chapters are presented in an order that is compatible with the typical organization of a college-level safety and health course. A standard chapter format is used throughout the book. Each chapter begins with a list of major topics and ends with a comprehensive summary. Following the summary, each chapter contains end material including review questions, key terms and concepts, and endnotes. Within each chapter are case studies to promote classroom discussion, as well as at least one safety fact or myth. These materials are provided to encourage review, stimulate additional thought, and provide opportunities for applying what has been learned.

HOW THIS BOOK DIFFERS FROM OTHERS

This book was written because in the age of global competition, safety and health in the workplace has changed drastically. Many issues, concerns, and factors relating specifically to modern workplace environments have been given more attention, greater depth of coverage, and more illumination than other textbooks. Some of the areas receiving more attention and specific occupational examples are the following:

- The OSHAct and OSHA
- Standards and codes
- Laws and liability
- Stress-related problems
- Life safety
- Evolving roles of health and safety professionals

- Health and safety training
- Human factors in safety
- Environmental issues and ISO 14000 standards
- Computers, robots, and automation
- Ethics and safety
- Bloodborne pathogens in the workplace
- Product safety and liability
- Ergonomics and safety
- Relationship between safety and quality
- Workplace violence
- Repetitive strain injuries (RSI)
- Terrorism threats in the workplace

NEW IN THIS EDITION

This fifth edition of *Occupational Safety and Health* contains much new and updated material, including the following:

General Revisions

- Additions, deletions, and changes suggested by reviewers were made as appropriate.
- Research material and corresponding endnotes were updated throughout.
- Older research material has been retained only if it is still valid and not time sensitive.
- Photographs and drawings were added at selected places in the manuscript to better illustrate certain concepts.

New or Updated Material in This Book

- Chapter 2: Added material on estimating the hidden costs of accidents.
- Chapter 3: Added material on drugs, depression, and management failures in accident causation.
- Chapter 4: Updated OSHA material including the new reporting forms, the enhanced enforcement policy, and examples of actual OSHA citations and fines.
- Chapter 5: Added material on how to control the rising costs of workers' compensation.
- Chapter 7: Added more material about sources of workplace stress and reducing the stress associated with shift work.
- Chapter 8: Added material on OSHA's requirements for machine guarding, machine guarding self-assessment, and control of hazardous energy. Also added photographs illustrating modern machine guards.
- Chapter 9: Added material on OSHA's recommendations for effective fall protection, regulations for footwear, and training requirements for operators of powered industrial trucks (forklifts).
- Chapter 12: Added material on electrical hazards self-assessment.
- Chapter 13: Added material on OSHA's Fire Standards, fire fighting options, and self assessment in fire protection.
- Chapter 14: Added material on toxic mold and OSHA's Hazard Communication Standard. Also grouped all material about confined space issues together in preparation for creating a separate chapter on confined spaces in the next edition.
- Chapter 17: Added material on evacuation planning, recovering from disasters, and terrorism in the workplace.
- Chapter 18: Was old Chapter 22. Chapter 18 - 24 were rearranged at the request of reviewers to collect all management-related chapters together.
- Chapter 19: Was old Chapter 23.

- Chapter 20: Was old Chapter 24. Added material on preventing and responding to needlestick injuries.
- Chapter 21: Was old Chapter 18. Added material on safety management concerns and best practices in safety management.
- Chapter 22: Was old Chapter 19. Added material on the types of accident reports and the circumstances that call for each type and on common causes of accidents that safety and health professionals can use when conducting accident investigations.
- Chapter 23: Was old Chapter 20. Added material on the effectiveness of incentives in promoting safety and on potential problems with incentive programs.
- Chapter 24: Was old Chapter 21. Added material on training issues for speakers of English as a second language and on OSHA's trend toward being more prescriptive in its training requirements.
- Chapter 25: Added material on an ISO 14000 success story.

Users Review

From reader reviews:

Ruth McGrath:

Have you spare time for the day? What do you do when you have considerably more or little spare time? Yeah, you can choose the suitable activity for spend your time. Any person spent all their spare time to take a stroll, shopping, or went to the particular Mall. How about open as well as read a book eligible Occupational Safety and Health for Technologists, Engineers, and Managers? Maybe it is to become best activity for you. You recognize beside you can spend your time with your favorite's book, you can wiser than before. Do you agree with the opinion or you have different opinion?

Gail Beattie:

The book Occupational Safety and Health for Technologists, Engineers, and Managers make you feel enjoy for your spare time. You can use to make your capable considerably more increase. Book can for being your best friend when you getting stress or having big problem together with your subject. If you can make examining a book Occupational Safety and Health for Technologists, Engineers, and Managers to become your habit, you can get considerably more advantages, like add your capable, increase your knowledge about several or all subjects. You can know everything if you like start and read a book Occupational Safety and Health for Technologists, Engineers, and Managers. Kinds of book are several. It means that, science e-book or encyclopedia or some others. So , how do you think about this e-book?

Miguel Ross:

The book untitled Occupational Safety and Health for Technologists, Engineers, and Managers contain a lot of information on it. The writer explains the woman idea with easy method. The language is very clear to see all the people, so do not necessarily worry, you can easy to read the item. The book was authored by famous author. The author brings you in the new period of time of literary works. You can read this book because you can continue reading your smart phone, or program, so you can read the book inside anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site and order it. Have a nice examine.

Jesus Jones:

What is your hobby? Have you heard that question when you got learners? We believe that that concern was given by teacher for their students. Many kinds of hobby, Every person has different hobby. So you know that little person similar to reading or as examining become their hobby. You need to know that reading is very important in addition to book as to be the issue. Book is important thing to increase you knowledge, except your teacher or lecturer. You discover good news or update with regards to something by book. Different categories of books that can you decide to try be your object. One of them are these claims Occupational Safety and Health for Technologists, Engineers, and Managers.

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