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# Occupational Safety And Health For Technologists, Engineers, And Managers (8th Edition)



## Synopsis

This comprehensive, extensively updated text covers all aspects of occupational safety and health in today's global workplace. A major revision, *Occupational Safety and Health for Technologists, Engineers, and Managers*, 8e, presents new and revised regulations, emerging approaches and trends, updated statistics, and other new material of significant importance to students and practitioners in the field. Among the dozens of new topics covered: ROI for safety/health investments; Heinrich's theory; Worker's Compensation lawsuits; fall protection; hard hat ratings; PPE for cold work environments; indoor air quality investigations; fungal growth assessment; nanoscale materials; and noise reduction ratings. Clear, up-to-date, and logically sequenced, this text begins with historical perspective and overview, then covers laws and regulations; human elements; hazard assessment, prevention, and control; and key management issues. Each chapter contains case studies to promote classroom discussion; at least one safety fact or myth designed to engage students; and review questions to test mastery and promote critical thinking.

Teaching and Learning Experience

This book will help technologists, engineers, and managers quickly master today's best practices for occupational safety and health. It provides:

- The most comprehensive coverage available, fully reflecting the field's latest trends
- Thoroughly prepares students for current and future realities in the field of occupational safety and health
- Supported with exceptional pedagogical features: Includes well-crafted chapter summaries, key terms and concepts, review questions, and many boxed features
- Combines theory and principles in realistic settings: Focuses on the new challenges of occupational safety and health in global workplace environments, and the changing roles of safety/health professionals

## Book Information

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## Customer Reviews

It is a text book about crucial but very complicated and sometimes controversial issues. I'm in Chapter 6 (OSHA Regulations) and so far it seems to be well written, well organized, and relatively easy to follow. But unless you are a safety and health professional (or have aspirations to become one) - it really isn't an enjoyable read.

To enforce its standards, OSHA is authorized under the OSH Act to conduct workplace inspections. Every establishment covered by the Act is subject to inspection by OSHA compliance safety and health officers, who are chosen for their knowledge and experience in the occupational safety and health field. Compliance officers are vigorously trained in OSHA standards and in recognition of safety and health hazards. Similarly, states with their own occupational safety and health programs conduct inspections using qualified compliance safety and health officers. The United States is very different in its approach than that of the EU. The problem comes down to where the liability lies. In the EU (Machinery Directive), the liability lies with the OEM. In the United States (OSH Act), the liability lies with the End User (or the employer). Under the OSH Act, employers are responsible for providing a safe and healthful workplace. OSHA's mission is to assure safe and healthful workplaces by setting and enforcing standards, and by providing training, outreach, education and assistance. Employers must comply with all applicable OSHA standards. Employers must also comply with the General Duty Clause of the OSH Act, which requires employers to keep their workplace free of serious recognized hazards. Both the EU and OSHA enforce their policies in their hierarchy. Please understand that the word "enforcement" most often is similar to the term "law." The U.S. legal model for enforcement however is not very straightforward when compared to the European compliance model within the Machinery Directive. In each model, the U.S. Occupational Safety & Health Administration (OSHA) and the European Machinery Directive are the "Law." Since the Machinery Directive lists the standards, a single flow with dual purpose is achieved, driving compliance and enforcement to the OEM. These listed standards are regularly updated and must be re-approved under the Machinery Directive. However, OSHA uses a list of "regulations" created in the early 1970s for enforcement. OSHA, the "Law of the Land," cites these "regulations" and openly enforces compliance to the END USER of machinery and not the supplier. Furthermore,

OSHA reserves the "right to reference" consensus standards for enforcement to the END USER. Which actually means that OSHA can pull any standard out of their bag for any situation. This book gives more clarity towards the OSHA directive and the OSH Act than what I have seen in the past. I would have given it a higher rating if it would have included more of the consensus standards. It needs to be "re-updated", but it is still a great textbook.

The book is very good, and I first bought the Kindle edition. It's not really in the kindle format, but in the digital print format. So to read it you have to enlarge every page, but if you touch the wrong area then it bounces to someplace else, sometimes it doesn't advance to the touch, sometimes it skips back to original size, etc. Not an easy read on the Kindle, I actually had to go back and buy the 6th edition hard copy, which as others have said is identical to the 7th edition.

This book has been great for my masters level safety class. It's very thorough, and the writer uses a lot of great examples that give you break from reading policy and process. The writer uses language that is easy to understand and explains things without going overboard. I've been able to easily relate a lot of what is in this book to my the field I'm in, which is aviation.

If you want and in-depth look at occupational safety and where it came from, this is the book for you. This was a course I took towards my degree and it had more than enough information about safety in the workplace. You learn in depth what to do to make changes if they are needed, how safety affects the work environment, and what to do in case you don't have all the information available to you. This textbook is definitely a keeper for future reference.

It's a very informative book. Although, it was for a college class and therefore not a fun and happy type of book. As far as the content, great for an education.

I had to purchase this book for a graduate course in Safety Engineering. I am very new to the field, but I found it extremely helpful, interesting, and useful. At the end of each chapter are reviews and topics which help you to remember the material in the book. I am not done reading it yet, but so far it is very comprehensive and an excellent book, especially for someone who is new to the field of Occupational Safety and Safety Engineering.

Contained lots of information to learn about in college. It felt a little tricky to read it all though.

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