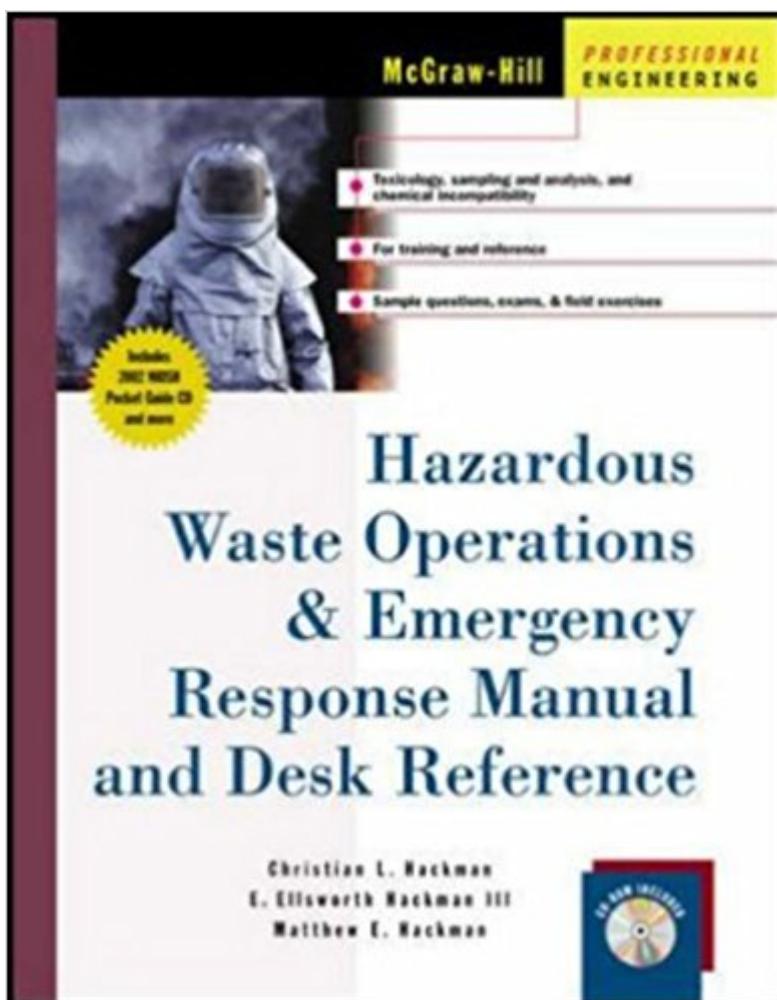


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# Hazardous Waste Operations & Emergency Response Manual And Desk Reference



## **Synopsis**

Hazardous Waste Operations and Emergency Response Manual & Desk Reference is a straightforward reference and training source designed to provide the site safety and health professional with a comprehensive guide to responding to emergencies involving releases or potential releases of hazardous substances. Important topics are discussed such as: Toxicology, Sampling and Analysis, Personal Protective Clothing, Chemical Incompatibility, Decontamination, Labels, Placards, and Other Identification, and Site Investigation, Control, and Emergency Response. Designed along the lines of 29CFR 1910.120 (Hazardous Waste Operations and Emergency Response regulation), this manual covers the training requirements of managers, supervisors, and professionals (engineers and scientists) involved in hazardous waste site operations and includes all topics covered in the OSHA-required 40-hour training course. The CD-ROM contains the book on PDF as well as the NIOSH Chemical Database for 2002. There are blank forms such as: site health and safety plans, checklist, worksheets, sample MSDS sheets, accident report forms, and site visit forms. The CD also includes sample questions, practice exams and practical field exercises.

## **Book Information**

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## **Customer Reviews**

IMPLEMENT BY THE BOOK HAZARDOUS WASTE OPERATIONS TO AVOID PENALTIES AND SAVE LIVES! Includes a searchable companion CD-ROM containing downloadable and easily

customized training aids and reference materials covering the entire 40-Hour HAZWOPER Certification Exam! Here in a single, definitive reference is the information environmental safety and health managers, trainers for large and small organizations, and site project and plant managers need to implement effective preventive and response strategies to workplace accidents involving the release of hazardous substances--in full compliance with the 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations. In Hazardous Waste Operations and Emergency Response: Manual and Desk Reference, experienced and expert authors cover every topic crucial to those training and managing HAZWOPER personnel. Sections include:\*

Regulations and Legislation\* Material Hazards and Chemical Incompatibility\* Toxicology\* Personal Protective Equipment\* Decontamination\* Labels, Placards, and Other Identification\* Interpreting MSDSs and International Chemical Safety Data Cards\* Overcoming Hazards in Confined Spaces\*

Other Workplace Hazards--Proactive and Reactive Safety\* Sampling and Monitoring of Gases, Liquids, and Solids\* Work at Hazardous Materials Generators and at Treatment, Storage, and Disposal Facilities\* Superfund Sites and Brownfields-Site Investigation, Control, and Remediation \*

Emergency Response\* Site Health and Safety System\* Exhaustive Glossary and Appendixes Also included is a searchable Companion CD-ROM providing essential training and informational databases, and practice aids such as:\*

The Table of Immediately Dangerous to Life and Health Concentrations; International Chemical Safety Data Cards; NIOSH Certified Equipment List; Manual of Analytical Methods; Pocket Guide to Chemical Hazards; OSHA Sampling and Analytical Methods; Recommendations for Chemical Protective Clothing; Specific Medical Tests Published for OSHA Regulated Substances; Toxicologic Review of Selected Chemicals; and the complete, searchable Emergency Response Guidebook.\* "Key Facts" preparatory for the 40-Hour HAZWOPER exam\* A Model Site Health and Safety Plan (HASP)\* Sample HAZWOPER exams and answer sheets\* And much more

**HAZARDOUS WASTE OPERATION AND EMERGENCY RESPONSE: MANUAL AND DESK REFERENCE** is invaluable as a training manual as well as a life-saving reference. It answers those questions asked during the 40-hour certification process and lays the groundwork for a coherent site environmental, safety, and health compliance and emergency response plan.

All of the authors are Members of the American Institute of Chemical Engineers. CHRISTIAN L. HACKMAN is a Certified Environmental Manager whose 25 years of hands-on experience in hazardous waste management includes work with the U. S. Navy, DuPont Engineering Test Center, and NST/Engineers, Inc. He has trained over 1,000 men and women in HAZWOPER, Emergency

Response, Incident Command System, Confined Spaces, Personal Protective Equipment, Lead and Asbestos Abatement, and numerous other employee safety courses. His project experience includes site remediation design and implementation, on-site safety audits and inspections, Environmental Site Assessment, determination of long-term remediation costs for cost-cap insurance, and air and wastewater permitting projects. Mr. Hackman has, for the last four years, been the Chairperson of the New Castle County (Delaware) Chamber of Commerce -- Environmental and Engineering Forum.

E. ELLSWORTH HACKMAN III, Ph.D., P.E. has been President of NST/Engineers, Inc. since 1973; NST/Engineers is a Delaware firm engaged in safety, environmental, chemical, and quality engineering and training. Dr. Hackman is a licensed Professional Engineer in Delaware and Pennsylvania, and certified by the National Council of Examiners for Engineering and Surveying. He has a Ph.D. in Physical Chemistry (combustion research) from the University of Delaware, an M.S. in Chemical Engineering from the University of Pennsylvania, and a B.S. in Chemistry from Juniata College. He is the author of Toxic Organic Chemicals: Destruction and Waste Treatment. Dr. Hackman's experience includes PCBs waste treatment process evaluation; air pollution control system design; ISO 9000 quality systems development; and chemical plant start-up, safety, and operating instructions preparation. His hazardous materials experience includes work with propellants, explosives, biological and chemical agents, cryogenics, acids and acid gases, cyanides, and VOCs. Dr. Hackman has also led over 250 sessions of a popular corporate, in-house, continuing education program (Air Products University); and numerous seminars on the selection of processes for hazardous waste treatment.

MATTHEW E. HACKMAN is a Professional Engineer in Alabama, Connecticut, Delaware, Illinois, Massachusetts, New Jersey, Rhode Island, and Texas. He is also Certified by the National Council of Examiners for Engineering and Surveying. Mr. Hackman received his B. S. in Chemical Engineering from the University of Delaware, an M. S. in Chemical Engineering from Princeton, and an MBA from Northeastern University. He is a Certified Hazardous Materials Manager (Senior Level) and past president of the New England ACHMM chapter. He has been responsible for the design and implementation of numerous remediation projects. Air and Wastewater permitting are a specialty. He is a Licensed Site Professional (LSP) in Massachusetts and a Licensed Environmental Professional (LEP) in Connecticut. Formerly the Technical Director for a Part B TSDF, he is currently the LSP for two multimillion dollar HUD Demonstration Disposition multifamily housing renovation and remediation projects in Boston, Massachusetts.

Not exactly a weekend read, but a must have for anyone involved in the Fire/EMS service.

...Perhaps the most complicated and convoluted set of regulations is those concerning hazardous waste, its handling, disposal, and response to its release. Of course it can be considered that the Federal Government did err by calling process by-products hazardous waste instead of following its performance-based philosophy as demonstrated in the OSHA regulations. Regulatory compliance could have been so much simpler if the definition employed was - this by- product has the potential of being hazardous if miss handled, such miss handling entails the following. Alas, this is not the case and we are burdened with a set of regulations that can turn youth aged overnight. There is hope however, and a light at the end of the proverbial tunnel can be seen. Coming like Dumas' Three Musketeers of old, galloping into the fray and seeking to make order out of chaos come the Hackmans with their Hazardous Waste Operations & Emergency Response Manual and Desk Reference. Since receiving this volume, it has become a ready and useful reference. It provides 16 chapters along with a CD-ROM of essential compliance information. A true compendium of valuable and useful data, guidance, and analyses. For example, consider Section 2. Hazardous Waste Defined: Contained therein are the following major topics: The OSHA Definition, EPA Definitions, The DOT Definition and Training Aids and Resources. These are then further broken down into sub topics. Such organization, scope and thoroughness provide a valuable tool when evaluating a particular situation or compliance methodology. Other sections cover such topics as Material Hazards, Chemical Incompatibility, Toxicology, and Sampling and Monitoring to name a few. The most substantial section is entitled Superfund Sites and Brownfields: Site Investigation, Control and Remediation. This alone is broken into 22 subsections, each of which is further subdivided. Perhaps one of the best technical writers of the last century was Samuel Glasstone. His volumes on Chemistry and Nuclear Engineering were very easy to read, understand, and use. This is because he endeavored to number every new topic so that easy reference could be made. This also provided logic to the subject matter, which assisted in the flow of the information that was providing. The Hackmans have effectively employed this numbering technique, and by doing so have provided not only simple logic and understanding to complex subject matter, but have also provided easy access to the information provided in the text. The text is enhanced by a Glossary of 91 pages plus a 12-page list of Acronyms. Both of these reference aids are important and necessary because of the complexity of the subject matter and that Federal Regulations breed and feed on acronyms and convoluted terminology. It is almost impossible to maintain understanding and awareness of all of them. In fact, the extensive glossary is a welcome adjunct because of the myriad of technical terms and regulatory definitions a fractioned needs to employ and understand. For example, in this

glossary, the term hazardous substance is defined by 7 specific requirements; CERCLA, Federal Water Pollution Control Act, Section 112r of the Clean Air Act, Toxic Substances Control Act, DOT, Solid Waste Disposal Act and OSHA. This depth and breadth is valuable because it enables a comprehensive evaluation of a particular situation and assists in eliminating or at least minimizing the chance of an omission error. It must be remembered that many practitioners are experts in a particular technical or regulatory area. As such, they need a tool that assists them in understanding and in becoming aware of requirements outside of their area of expertise. The provision of comprehensive definitions and information helps to foster such a broad perspective. In addition to the book a special CD is provided as an additional resource. According to the authors this CD serves three purposes: It provides downloadable and printable resources for trainers - these include a sample HAZWOPER Worker exam, It provides a selection of NIOSH Databases which includes the NIOSH Manual of Analytical Methods and the NIOSH Pocket Guide to Chemical Hazards, and lastly it provides 18 appendices to the text - these appendices include Limits for Air Contaminants ("Z Lists") 29CFR1910.1000 and the OSHA HAZWOPER Standard, 29CFR 1910.120. Just the contents of the CD is worth the purchase price of the text. All in all, according to the contents, the CD covers 33 separate topics. When dealing with the complex issues that practitioners face every day, the information contained in the CD forms a comprehensive foundation of knowledge, data and information. This is presented in a concise and easily usable format. Also, instead of creating a second volume, the authors wisely chose this option of the CD to compliment the text, thereby producing one volume packed with essential information and resources. One of the major frustrations a practitioner faces is that it is usually necessary to consult various references in order to address a particular situation. When a volume comes along that provides an encyclopedia of useful and necessary information, it does simplify many other time-consuming information search tasks. The profession has benefited from this work because it provides that simplification. The authors have brought together information from diverse sources into one volume. One volume, that has already proved its value to my practice. The only shortcoming is that the use of color, especially in the signs and placarding examples would have been useful and would have assisted in making its reference value even greater. Seeing these items in the colors specified by the regulations would have enhanced the understanding of their meaning and employment. Perhaps just a color insert or inside cover display would have served this need adequately. This volume has become a useful and welcomed addition to my reference library, and well worth the modest price.

Great product! Cuts vegetables like butter. love it . arrive on time. i love it , feel very good .

We own an environmental contracting company and we are responsible for training our employees. This is the best book that we have seen to date. It is simple to read and easy to use. One of our services is hazardous material training for our client base. We are planning to use this book in the training classes. We enjoy how the book is laid out and how one subject rolls into the next. The subject matter is right on track for our industry. It is about time a book like this was printed. We are planning to generate revenue from the sale of this book and the upcoming classes that we are developing.

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