1. Record Nr. UNINA9910460643503321

Titolo	Hazardous materials : handbook for emergency responders / / edited by Joe Varela ; illustration, Jeff Northway, Brad Kobielusz, Dan Seese
Pubbl/distr/stampa	New York : , : Van Nostrand Reinhold, , 1996 ©1996
ISBN	1-119-05885-6 1-119-05888-0 1-119-05889-9
Descrizione fisica	1 online resource (561 p.)
Disciplina	628.9
Soggetti	Hazardous substances - Accidents Emergency management Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title; Copyright; Contents; Foreword; Acknowledgments; Chapter 1:INTRODUCTION TO HAZARDOUS MATERIALS; Objectives; Introduction; Regulation of Hazardous Materials; Hazardous Material Defined; The Hazardous Materials Responder; Hazardous Materials Incident Types; Identification and Recognition; Information Resources; Conclusion; Chapter 2:BASICS OF TOXICOLOGY ANDPERSONAL PROTECTIVE EQUIPMENT; Objectives; TOXICOLOGICAL CONCEPTS; Routes of Chemical Entry; Dose and Response; Toxicity and Hazard; Threshold Limit Value; Types of Exposure; Methods of Measurement for the Responder Diagnostic Clues to Chemical ExposuresSelected Toxic Products of Combustion; Target Organs of Selected Chemicals; PERSONAL PROTECTIVE EQUIPMENT; Respiratory Protection; Chemical Protection; Thermal Protection; Heat Stress Concerns; Cold Stress; Conclusion; Chapter 3:MANAGING THE HAZARDOUSMATERIALS INCIDENT; Objectives; Introduction; Managing the Incident; Six Steps to Incident Management; Hazard Identification; Action Plan; Zoning; Managing the Incident; SOPs; Incident Command; Assistance; Termination;

Decontamination; Decontamination Methods; Rehabilitation; Medical Screening
Post-Incident AnalysisConclusion; Chapter 4:EXPLOSIVE EMERGENCIES; Objectives; UNDERSTANDING EXPLOSIVES; Introduction; Definition of Explosives; General Classifications of Explosives; DOT Classifications and Markings; Military Markings; Common Uses of Explosives; Common Commercial Explosives; Common Military Explosives; Initiating Devices; Types of Explosions; Effects of an Explosion; Common Shipping Containers; RESPONDING TO EXPLOSIVE EMERGENCIES; Incident Response; Hazard Identification; Action Plan; Zoning; Managing the Incident; Assistance; Termination; Key Points to Review; Dedication Chapter 5:GAS EMERGENCIESObjectives; UNDERSTANDING COMPRESSEDAND LIQUEFIED GASES; Introduction; Definitions; How Gas Is Compressed; Uses of Compressed Gases; Physical and Chemical Properties of Gases; Placard and Label Requirements; Shipping Containers; Fixed Site Storage Vessels; Pipelines; Tank and Cylinder Safety Devices; BLEVE; Compressed Gas Explosions; Liquid Petroleum Gas (LPG) Hazards; Key Points to Review; UNDERSTANDING CRYOGENICS; Introduction; Characteristics of Cryogenics; Thermodynamics of Cryogenics; Classes of Cryogenics; Hazards of Cryogenics; Cryogenic Containers
Hydrostatic Tank Destruction and BLEVE PotentialKey Points to Review; RESPONDING TO COMPRESSED GAS EMERGENCIES; Hazard Identification; Action Plan; Zoning; Managing the Incident; Assistance; Termination; Key Points to Review; RESPONDING TO LIQUEFIED GAS EMERGENCIES; Physical and Chemical Properties; Hazard Identification; Action Plan; Zoning; Managing the Incident; Assistance; Termination; Key Points to Review; RESPONDING TO CRYOGENIC EMERGENCIES; Hazard Identification; Action Plan; Zoning; Managing the Incident; Assistance; Termination; Key Points to Review
Chapter 6:FLAMMABLE AND COMBUSTIBLE LIQUIDEMERGENCIES

Sommario/riassunto

Hazardous Materials Handbook for Emergency Responders breaks down the hazards and response priorities according to the nine classes of hazardous chemicals defined by the U.N. and the U.S. Department of Transportation. Designed to prepare HazMat professionals for all three levels of response, as defined by OSHA, the Handbook:Offers the most complete and current coverage of control and mitigation techniques for chemical emergencies.Provides extensive treatment of transportation and storage vessels.Helps users comply with all relevant government regulations and standards, including OSHA and NFPA