

1. Record Nr.	UNINA9910824706303321
Autore	Bahadori Alireza
Titolo	Personnel protection and safety equipment for the oil and gas industries // Alireza Bahadori, School of Environment Science and Engineering Southern Cross University Lismore, NSW Australia
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Gulf Professional Publishing, , 2015 ©2015
ISBN	0-12-802814-9
Descrizione fisica	1 online resource (598 p.)
Disciplina	602
Soggetti	Breathing apparatus Personal protective equipment Gas industry - Safety measures Petroleum industry and trade - Safety measures
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	""Front Cover""; ""Personnel Protection and Safety Equipment for the Oil and Gas Industries""; ""Copyright Page""; ""Contents""; ""Biography""; ""Preface""; ""Acknowledgments""; ""1 Breathing apparatus for personnel safety and protection""; ""1.1 Introduction""; ""1.1.1 Minimal acceptable program""; ""1.1.2 Medical limitations""; ""1.1.3 Communication""; ""1.1.4 Use of unapproved respiratory protective devices""; ""1.2 Selection of respiratory protective equipment""; ""1.3 Severity and location of the hazard""; ""1.3.1 Nature of the hazard""; ""1.3.2 Storage""; ""1.4 Special considerations"" ""1.4.1 Corrective lenses with full facepieces""""1.4.2 Eyewear with half-mask facepiece""; ""1.5 Classification of respiratory protective equipment""; ""1.5.1 By purifying the air breathed""; ""1.5.2 By supplying air or oxygen from an uncontaminated source""; ""1.5.3 Self-contained breathing apparatus (SCBA)""; ""1.5.4 Open-circuit escape BA""; ""1.5.5 Closed-circuit escape breathing apparatus""; ""1.6 Fresh-air hose and compressed air-line breathing apparatus""; ""1.6.1 General requirements""; ""1.6.2 Compressed-air-line apparatus (Demand-Valve Type)""; ""1.6.3 Resistance to breathing""

1.6.4 Requirements for fresh-air hose apparatus"; 1.6.5 Requirements for compressed-air-line apparatus"; 1.6.6 High-efficiency dust respirators"; 1.7 Positive-pressure, powered dust respirators"; 1.7.1 Design"; 1.7.2 Power pack"; 1.8 Respirators for protection against harmful dust and gas"; 1.9 Dust respirators"; 1.9.1 Design"; 1.10 Gas respirators, canister type"; 1.10.1 Design"; 1.10.2 Canisters"; 1.11 Gas respirators, cartridge type"; 1.11.1 Design"; 1.12 Positive-pressure, powered dust hoods and suits"; 1.12.1 Design"; 1.12.2 Hood and suit"; 1.12.3 Power pack"; 1.13 Underwater breathing apparatus"; 1.13.1 Cylinders"; 1.13.2 Compressed air for human respiration"; 1.14 Ventilatory resuscitators"; 1.14.1 Classification"; 1.14.2 Physical requirements"; 1.14.3 Gas-Powered resuscitators"; 1.14.4 Gas supply"; 1.15 Nominal protection factor"; 2 Masks and respiratory equipment materials"; 2.1 Introduction"; 2.2 Masks and respiratory equipment (Breathing apparatus)"; 2.2.1 Classification of respiratory equipment"; 2.2.2 Classification of environment"; 2.2.3 Classification of respiratory protective devices (see Figure 2.2)"; 2.2.4 Breathing apparatus"; 2.3 Selection of breathing apparatus"; 2.4 Respirators for dusts and gases"; 2.4.1 Filtering facepiece dust respirators"; 2.4.2 High-efficiency dust respirators"; 2.4.3 Positive-pressure dust respirators"; 2.4.4 Filters"; 2.4.5 Harness"; 2.4.6 Connecting fittings"; 2.4.7 Performance requirement"; 2.4.8 Marking"; 2.5 Positive-pressure, powered dust hood and suits"; 2.5.1 Construction"; 2.5.2 Hood and suits"; 2.5.3 Power pack"; 2.5.4 Performance requirement"

---

## Sommario/riassunto

Oil and gas companies are repeatedly cited by regulatory organizations for poor training and maintenance on providing personal protective equipment to their refinery workers. Managers of refinery and petrochemical plants are responsible for instructing their workers with the types of equipment available, how to properly wear the equipment, how to properly care and maintain the equipment, and, most importantly, it's their responsibility to enforce these regulations and safety requirements. While there are many reference materials on the subject, most are too broad to apply directly to the uniq

---