

1. Record Nr.	UNINA9910825939503321
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Titolo	ISO 14000 environmental management standards : engineering and financial aspects // Alan S. Morris
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, 2004
ISBN	1-280-26905-7 9786610269051 0-470-09078-2 0-470-09077-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (302 p.)
Disciplina	658.4/08
Soggetti	ISO 14000 Series Standards Environmental protection - Standards
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	ISO 14000 Environmental Management Standards; Contents; Dedication; Preface; 1 Introduction; 1.1 General approach to developing an environmental management system; 1.2 Summary of requirements of ISO 14001; 1.3 Other ISO 14000 standards; 1.4 Engineering aspects of ISO 14001 requirements; 1.5 What is essential and what is not when implementing ISO 14001?; References; 2 Design and Implementation of ISO 14001 Environmental Management Systems; 2.1 Design of an environmental management system; 2.2 Environmental management system implementation; 2.3 Environmental management system costing 2.4 Environmental management system audits 2.5 ISO 14001 registration; 2.6 Publicity about good environmental performance; Reference; 3 Measurement Systems in Environmental Management; 3.1 Choosing suitable measuring instruments; 3.2 Calibration of measuring instruments; 3.3 Documentation of measurement and calibration systems; References; 4 Measurement System Errors; 4.1 Random errors; 4.2 Systematic errors; 4.3 Error reduction using intelligent instruments; 4.4 Total measurement system errors; References; 5 Measurement Signal Conversion, Processing, Transmission and Recording

5.1 Variable conversion elements
5.2 Signal processing; 5.3 Signal transmission; 5.4 Signal recording; 6 Quantification and Effects of Air Pollution; 6.1 Air pollution sources and effects; 6.2 Measurement of air quality: particulate matter content; 6.3 Measurement of air quality: concentration of polluting gaseous products; References; 7 Quantification and Effects of Water Pollution; 7.1 Sources and forms of water pollution; 7.2 Consequences of water pollution; 7.3 Water sampling in rivers; 7.4 Testing of river water for pollution; References; 8 Control of Air and Water Pollution
8.1 Air pollution control
8.2 Water pollution control; References; 9 Noise, Vibration and Shock Pollution; 9.1 Noise; 9.2 Vibration; 9.3 Shock; 10 Waste Management; 10.1 Waste reduction; 10.2 Waste disposal; References; 11 System Reliability and Risk Assessment for Environmental Protection; 11.1 Definitions; 11.2 Identifying hazards; 11.3 Risk assessment; 11.4 Risk analysis; 11.5 Risk management; 11.6 Reliability analysis; 11.7 References and further reading; 12 Statistical Process Control; 12.1 Conditions for application of statistical process control
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12.3 XBAR chart (or MEAN chart); 12.4 CUSUM chart (cumulative sum chart); 12.5 RANGE chart (R chart); 12.6 Summary of control charts; References; 13 Monitoring Process Parameter Values to Minimise Pollution Risk; 13.1 Temperature measurement; 13.2 Pressure measurement; 13.3 Flow measurement; 13.4 Level measurement; References; Appendix 1 Summary of ISO 14000 Series Standards; Appendix 2 Typical Structure of an Environmental Management System Manual; Index

Sommario/riassunto

This book covers the cross-disciplinary areas between management issues and engineering issues relevant to implementation of Environmental Management Systems (EMS) to the ISO 14000 series standards. It summarises the requirements set by ISO 14001 and considers the management and engineering policies needed to satisfy these requirements and achieve ISO 14001 certification. Unique approach by integrating environmental management and engineering considerations
Avoids overuse of complicated technical jargon
Detailed coverage of measurement and calibration standards to meet ISO 14001
