1. Record Nr. UNINA9910133858703321

Titolo	Handbook of loss prevention engineering [[electronic resource]] . Volume 1 / / edited by Joel M. Haight
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH Verlag GmbH, c2013
ISBN	3-527-65064-4 3-527-65067-9 3-527-65066-0
Descrizione fisica	1 online resource (1148 p.)
Altri autori (Persone)	HaightJoel M
Disciplina	620.86
Soggetti	Industrial safety Human engineering
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	Handbook of Loss Prevention Engineering; Glossary (Taken in Part from Standard Handbook for Civil Engineers (Ricketts, Loftin, and Merritt, 2003) and OSHA 29 CFR 1926 (OSHA, 2012b)); Contents to Volume 1; Preface; List of Contributors; Part I Engineering Management for Loss Prevention Engineering; 1 Management Systems - Loss Prevention Engineering Programs and Policy; 1.1 Introduction - Understanding the Need for Management Systems; 1.2 Management Systems - Definitions; 1.3 Loss Prevention Engineering - Considerations; 1.4 Management Systems - Loss Prevention Engineering 1.4.1 Leadership Commitment1.4.2 Vision and Objectives; 1.4.3 Resources / Policy / Processes / Procedure / Regulations; 1.4.3.1 Resources; 1.4.3.2 Policy; 1.4.3.3 Regulatory Consideration; 1.4.3.4 Processes; 1.4.3.5 HES Processes Approach and Structure; 1.4.4 Business Planning (HES); 1.4.5 Implementation; 1.4.6 Evaluation of Management System for Improvement; 1.4.7 Periodic Corporation Audit; 1.4.8 Enterprise Audit Plan; 1.4.9 Audits Levels and Continuous Improvement; Appendix 1.A: BCN - NSHE Sample Drug and Alcohol Policy; Appendix 1.B: Behavior-Based Safety Supporting Tool Appendix 1.C: Sample Internal Simple Inspection ChecklistReferences; 2 Resource Allocation and Effectiveness Measures for Loss Prevention; 2.1 Introduction; 2.2 What Is Loss Prevention/Safety and Health

Intervention?; 2.3 Historical Perspective of Resource Allocation for Loss Prevention; 2.4 Loss Prevention/Safety and Health Intervention Effectiveness Evaluation; 2.5 Importance of Multiple Factors in Loss Prevention; 2.6 Research Methodology in Resource Allocation for Loss Prevention; 2.7 Experimental Method; 2.8 Analysis and Results; 2.9 Conclusion; References
3 Engineering Systems and Engineering Economics of Loss Prevention3.1 Introduction; 3.2 Cost of Injuries; 3.3 Return on Investment Versus Cost Savings Versus Productivity Savings; 3.4 Engineering Economics; 3.5 Engineering Economic Decision-Making; 3.6 Net Present Value Comparison (Equipment Replacement); 3.6.1 Final Result and Decision; 3.6.2 Accept or Reject Decision for a Simple Investment Based on Rate of Return; 3.7 Payback Period Comparison; 3.8 Financial Considerations of a Loss Prevention Engineering Project; 3.8.1 Project Budget; 3.9 Conclusion; References
4 Safety Management and Culture4.1 What Is Organizational Culture?; 4.2 How Does Culture Form?; 4.3 Why Is It Good Business to Improve Your Company's Culture?; 4.4 Measuring Culture; 4.5 How to Bring About Changes in Culture; References; 5 Leadership and Loss Prevention Engineering: Creating Conditions to Get Beyond Compliance to High Performance; 5.1 Introduction; 5.2 Management Theories; 5.2.1 Scientific Management Theory; 5.2.2 The Link Between Motivation in Individuals and Management Theories; 5.2.3 Motivation Theories Integrated into Management Theories
5.2.3.1 Autonomy for the Individual

Sommario/riassunto

Loss prevention engineering describes all activities intended to help organizations in any industry to prevent loss, whether it be through injury, fire, explosion, toxic release, natural disaster, terrorism or other security threats. Compared to process safety, which only focusses on preventing loss in the process industry, this is a much broader field. Here is the only one-stop source for loss prevention principles, policies, practices, programs and methodology presented from an engineering vantage point. As such, this handbook discusses the engineering needs for manufacturing,