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Titolo	Improving profitability through green manufacturing : creating a profitable and environmentally compliant manufacturing facility // David R. Hillis, J. Barry DuVall
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Descrizione fisica	1 online resource (245 p.)
Altri autori (Persone)	DuVallJohn Barry <1942->
Disciplina	628
Soggetti	Manufacturing processes - Cost control Manufacturing processes - Environmental aspects Green products - Cost effectiveness Sustainable 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	IMPROVING PROFITABILITY THROUGH GREEN MANUFACTURING; CONTENTS; PREFACE; ACKNOWLEDGMENTS; CHAPTER 1: MANUFACTURING; INTRODUCTION; MANUFACTURING SEQUENCE; PRODUCT LIFE CYCLES-THERE'S MORE THAN ONE; LIFE CYCLE ANALYSIS; POTENTIAL FOR WASTE AND VALUE ADDED IN MANUFACTURING; VERTICALLY VERSUS HORIZONTALLY INTEGRATED MANUFACTURING; WASTE AND ITS UNEXPECTED SOURCES; The First Source of Waste; The Second Source of Waste; The Third Source of Waste; A NEW PRODUCT-FIRST PHASE FOR WASTE REDUCTION; EXISTING PRODUCTS-SECOND PHASE FOR WASTE REDUCTION;

REGENERATION; LIFE CYCLE OF THE MANUFACTURING FACILITY
CREATING A CLASSIFICATION SYSTEM FOR A COMPLIANT AND
PROFITABLE MANUFACTURING SYSTEM SUMMARY; SELECTED
BIBLIOGRAPHY; CHAPTER 2: BUILDING A DECISION-MAKING MODEL;
INTRODUCTION; INDUSTRIAL PRODUCTION AND MANUFACTURING;
CLASSIFYING MANUFACTURING INDUSTRIES; MAJOR PRODUCT GROUPS
FROM NAICS; MATERIAL STOCKS; MAJOR MATERIAL FAMILIES; BASIC
PROCESS CLASSIFICATIONS; Forming Processes; Separating Processes;
Joining Processes; Conditioning Processes; Finishing Processes; DESIGN
TEMPLATE FOR CLASSIFYING MANUFACTURING PROCESSES; IT ALL
BEGAN IN SALLY'S GARDEN; THE ANALYSIS; NEXT STEPS
SELECTED BIBLIOGRAPHY CHAPTER 3: ENVIRONMENTAL REGULATIONS,
STANDARDS, AND PROFITABILITY; INTRODUCTION; ORGANIZING TO
COMPLY-THE MANAGEMENT FOUNDATION; FORMALIZING THE
MANAGEMENT APPROACH-THE ISO STANDARDS; ISO 14000 Series of
Standards; OVERVIEW OF MAJOR ENVIRONMENTAL REGULATIONS; Clean
Air Act Overview; Clean Water Act Overview; Solid and Hazardous Waste
Management Overview; SUMMARY-COMPLIANCE CAN MEAN PROFITS;
SELECTED BIBLIOGRAPHY; CHAPTER 4: CASE STUDIES; INTRODUCTION;
CASE STUDY 1; Introduction; Waste Minimization Programs; Reuse and
Recycling Activities in the Office
Reduction and Reuse of Packaging Comment; CASE STUDY 2;
Introduction; The Study and Methods Used; Conclusion; Comment;
CASE STUDY 3; Introduction; Description of the Manufacturing
Operation; Manufacturing Operations and Sequence; Steps Taken to
Lessen the Environmental Impact of the Manufacturing Facility; Material
Waste Reduction; Resource Reduction; Methods the Company Uses to
Identify and Make Improvements; Summary; Comment; CASE STUDY 4;
Introduction; Manufacturing Operations and Sequence; Steps Taken to
Lessen the Environmental Impact of the Facility; Methods Used to Make
Improvements
Examples of Waste Reduction Comment; CASE STUDY 5; Introduction;
Singapore Packaging Agreement; The "Three Rs" Approach to Solid
Waste Minimization; Comment; CONCLUSION; SELECTED BIBLIOGRAPHY;
CHAPTER 5: AN OVERVIEW OF TOOLS USED TO IMPROVE
MANUFACTURING OPERATIONS; INTRODUCTION; WASTE REDUCTION:
THE PROFITABLE AND COMPLIANT PROCESS CHART-A COLLABORATIVE
TOOL FOR BOTH GROUPS AND ALL FUNCTIONS; TRAINING AND
DEVELOPMENT; Operator Self-Control; Culture Change;
MANUFACTURING ENGINEERING AND OPERATIONS; Lean Manufacturing;
Kaizen; Pareto Principle; Process Control; Certified Management
Systems
Design of Experiments

Sommario/riassunto

Manufacturers can be green and highly profitable at the same time
Profits do not have to be sacrificed to environmental responsibility, or
vice versa. Following this book's tested and proven approach, readers
discover how to create and operate manufacturing facilities that are
highly profitable while meeting or exceeding the environmental
standards of their local community, state, and federal governments.
The authors' approach is broad in scope, setting forth the roles and
responsibilities of organizational functions such as marketing, product
design, manufacturing technology
