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This is the Leader's Guide that

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accompanies the Mistake-
Proofing for Operators Learning
Package.

Normal Accidents analyzes the
social side of technological risk.
Charles Perrow argues that the
conventional engineering

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approach to ensuring
safety--building in more warnings
and safeguards--fails because
systems complexity makes
failures inevitable. He asserts
that typical precautions, by
adding to complexity, may help

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create new categories of accidents. (At Chernobyl, tests of a new safety system helped produce the meltdown and subsequent fire.) By recognizing two dimensions of risk--complex versus linear interactions, and

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tight versus loose coupling--this book provides a powerful framework for analyzing risks and the organizations that insist we run them. The first edition fulfilled one reviewer's prediction that it "may mark the beginning

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of accident research." In the new afterword to this edition Perrow reviews the extensive work on the major accidents of the last fifteen years, including Bhopal, Chernobyl, and the Challenger disaster. The new postscript

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probes what the author
considers to be the
"quintessential 'Normal
Accident'" of our time: the Y2K
computer problem.
Shigeo Shingo shows you how
this proven system for reducing

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errors to zero, turns out the highest quality products in the shortest period of time. Provides 112 specific examples of poka-yoke development devices on the shop floor, most of them costing less than \$100 to

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implement.

In a "pull" production system, the final process pulls needed parts from the previous process, which pulls from the process before it, and so on, as determined by customer demand. This allows

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you to operate without preset
schedules and avoid
unnecessary costs, wastes, and
delays on the manufacturing
floor. Pull Production for the
Shopfloor introduce
Volume 3 -- Flow Manufacturing

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-- Multi-Process Operations and
Kanban
Normal Accidents
Living with High Risk
Technologies - Updated Edition
The SMED System
From an Industrial Engineering

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Viewpoint
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Principia Mathematica to *56

Strategic Error-Proofing

The principles of mistake proofing, long used to eliminate errors and defects across a range of industries, are now

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being applied in healthcare organizations around the world to help ensure patient safety, improve services, and eliminate waste. Mistake Proofing for Lean Healthcare is based on the definitive mistake-proofing

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***philosophy and system
developed by Shigeo Shingo.
This reader-friendly book
introduces the main concepts
and benefits of mistake proofing
in healthcare and highlights
common reasons that errors and***

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defects occur. It also explains how to catch errors before they become defects, using the concept of "source inspection," so you can ensure quality before a process is performed instead of afterward. When

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systematically used, the mistake-proofing approach explained in this book will help you: Create safer, more reliable, and more effective healthcare services for both patients and staff Establish a culture in which mistakes and

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***the conditions that cause them
are readily surfaced so they can
be corrected Lay the foundation
for processes that flow
smoothly, without disruption
Eliminate rework, waste, and the
need for extra resources and***

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***supplies Presenting real-world
healthcare examples, the book
shows different types of mistake-
proofing devices and methods
(poka-yoke) that provide
feedback quickly and
automatically to prevent errors***

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and defects. The book is part of the Lean Healthcare Series and is designed for individual or group learning. Each chapter includes reflection questions to facilitate understanding and stimulate discussion and action.

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A combination of source inspection and mistake-proofing devices is the only method to get you to zero defects. Shigeo Shingo shows you how this proven system for reducing errors turns out the highest

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quality products in the shortest period of time. Shingo provides 112 specific examples of poka-yoke development devices on the shop floor, most of them costing less than \$100 to implement. He also discusses

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inspection systems, quality control circles, and the function of management with regard to inspection.

This is the "green book" that started it all -- the first book in English on JIT, written from the

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**engineer's viewpoint. When
Omark Industries bought 500
copies and studied it
companywide, Omark became
the American pioneer in JIT. Here
is Dr. Shingo's classic industrial
engineering rationale for the**

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priority of process-based over operational improvements in manufacturing. He explains the basic mechanisms of the Toyota production system, examines production as a functional network of processes and

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***operations, and then discusses
the mechanism necessary to
make JIT possible in any
manufacturing plant. Provides
original source material on Just-
In-Time Demonstrates new ways
to think about profit, inventory,***

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***waste, and productivity Explains
the principles of leveling,
standard work procedures, multi-
machine handling, supplier
relations, and much more If you
are a serious student of
manufacturing, you will benefit***

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***greatly from reading this primary
resource on the powerful
fundamentals of JIT.***

***Toyota Production System
methods have rendered
remarkable results in high-
volume manufacturing plants,***

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but they have not been fully understood and correctly applied in high-mix, low-volume environments. While lean principles do apply, the implementation methods and tools must be adapted and

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alternate methods embraced in a low-volume environment. This volume is specifically geared for manufacturers that have hundreds to thousands of active part numbers with few or no ongoing forecasted volumes,

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and for job shops that build only to order. The primary focus is eliminating non-value-added activities and instituting improvements on the most repetitive jobs, a strategy that gives you more time to produce

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your low-volume work or one-offs. About the author: Greg Lane is a faculty member of the Lean Enterprise Institute and an advisor to the Instituto de Lean Management in Spain. During his time with Toyota, he was one of a

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handful of candidates selected for a one-year training program conducted by the company's masters. He became certified as a Toyota Production System (TPS) Key Person and continued his work with Toyota, training

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others in TPS. He has been highly active in working on implementing lean around the world, supporting large and small companies alike. In 1998, he began to focus his lean endeavors on meeting the

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specific needs of high-mix, low-volume enterprises. During his time as an independent consultant, Greg purchased and operated his own manufacturing company, which specialized in fast turnaround on high-mix, low-

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volume parts. Greg used TPS to grow the business and nearly double its sales. Greg and his associates have experience not only at adapting the methods contained in this book, but also in applying other tools that are

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too numerous to detail here.

***They can be reached for further
support with your lean
transformation via email:***

glane@lowvolumelean.com

Lean Six Sigma For Dummies

Make No Mistake!

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Oee for Operators

Zero Quality Control

***A Graphical Glossary for Lean
Thinkers***

Book of Proof

This book is an introduction

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to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of

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college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some

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calculus, there is really no prerequisite other than a measure of mathematical maturity.

This abridged text of the most famous work ever written on the foundations of mathematics contains

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material that is most relevant to an introductory study of logic and the philosophy of mathematics. Cellular Manufacturing: One-Piece Flow for Workteams introduces production teams to basic cellular

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manufacturing and teamwork concepts and orients them for participating in the design of a new production cell. Use this book to get everyone on board to reduce lead time, work-in-process inventory, and other profit-

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draining wastes. Each chapter includes an overview and a summary to reinforce concepts, as well as reflection questions, which can be used to encourage group discussions. This volume is part of

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Productivity Press'

Shopfloor Series, which
offers a simple, cost-
effective approach for
building basic knowledge
about key manufacturing
improvement topics

The philosophy of kaizen,

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which simply means continuous improvement, needs to be adopted by any organization seeking to implement lean improvements that go beyond cost cutting. Kaizen events are opportunities to make

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focused changes in the workplace. Kaizen for the Shopfloor takes readers through the critical steps for conducting a very effective kaizen event: one that is well planned, well implemented, and well

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documented. As the newest addition to the Shingo Prize Winning Shopfloor Series, Kaizen for the Shopfloor distills the complexities of jump starting lean processes into an easily accessible format for those frontline

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employees who make lean possible. About the Shopfloor Series: Put proven improvement tools in the hands of your entire workforce! Progressive shopfloor improvement techniques are imperative

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for manufacturers who want to stay competitive and to achieve world class excellence. And it's the comprehensive education of all shopfloor workers that ensures full participation and success when

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implementing new programs.
The Shopfloor Series books
make practical information
accessible to everyone by
presenting major concepts
and tools in simple, clear
language and at a reading
level that has been adjusted

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for operators by skilled instructional designers. One main idea is presented every two to four pages so that the book can be picked up and put down easily. Each chapter begins with an overview and ends with a

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summary section. Helpful
illustrations are used
throughout.

A Leader's Guide

Pull Production for the
Shopfloor

Lean Lexicon

Educating and Elevating Lean

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Practitioners Throughout
Your Organization
Design for Six Sigma, Volume
VI
Mistake-Proofing for
Operators Learning Package
Collected Practices and
Cases

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With 14 new definitions touching on management, healthcare, startups, manufacturing, and service, the 5th edition of the Lean Lexicon, is the most comprehensive

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edition yet of the handy and practical glossary for lean thinkers. The latest Lexicon, updated in 2014, contains 60+ graphics and 207 terms from A3 Report to Yokoten. The Lexicon

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covers such key lean terms as andon, jidoka, kaizen, lean consumption, lean logistics, pull, plan-for-every-part, standardized work, takt time, value-stream mapping, and many

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more. The new terms are: •
Basic Stability • Coaching
• Gemba Walk • Huddle •
Kamishibai Board • Kata •
Leader Standard Work •
Lean Management • Lean
Management Accounting •

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Lean Startup • Problem
Solving • Service Level
Agreement • Training
Within Industry (TWI) •
Value-stream Improvement
Unlike most other business
glossaries in print or

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online, the Lexicon,
introduced in January
2003, is focused
exclusively on lean
thinking and practice.
Like the past four, the
fifth edition of the Lean

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Lexicon incorporates terms and improvement ideas from our customers. We continue to welcome suggestions from the growing lean community in its traditional industries and

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beyond.

This book illustrates how the strategic placement of 'error-proofing' devices, which is referred in this book as Success Every Time (SET), drives up

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industries' profits and
throughput. It highlights
the deficiencies of
Failure Mode Effects
Analysis (FMEA) and
compares the strategy to
the SET.

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In the new millennium the increasing expectation of customers and products complexity has forced companies to find new solutions and better alternatives to improve

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the quality of their products. Lean and Six Sigma methodology provides the best solutions to many problems and can be used as an accelerator in industry, business and

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even health care sectors.
Due to its flexible
nature, the Lean and Six
Sigma methodology was
rapidly adopted by many
top and even small
companies. This book

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provides the necessary guidance for selecting, performing and evaluating various procedures of Lean and Six Sigma. In the book you will find personal experiences in the field

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of Lean and Six Sigma
projects in business,
industry and health
sectors.

The Quality Toolbox is a
comprehensive reference to
a variety of methods and

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techniques: those most commonly used for quality improvement, many less commonly used, and some created by the author and not available elsewhere. The reader will find the

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widely used seven basic quality control tools (for example, fishbone diagram, and Pareto chart) as well as the newer management and planning tools. Tools are included for

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generating and organizing
ideas, evaluating ideas,
analyzing processes,
determining root causes,
planning, and basic data-
handling and statistics.
The book is written and

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organized to be as simple
as possible to use so that
anyone can find and learn
new tools without a
teacher. Above all, this
is an instruction book.
The reader can learn new

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tools or, for familiar
tools, discover new
variations or
applications. It also is a
reference book, organized
so that a half-remembered
tool can be found and

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reviewed easily, and the right tool to solve a particular problem or achieve a specific goal can be quickly identified. With this book close at hand, a quality

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improvement team becomes
capable of more efficient
and effective work with
less assistance from a
trained quality
consultant. Quality and
training professionals

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also will find it a handy reference and quick way to expand their repertoire of tools, techniques, applications, and tricks. For this second edition, Tague added 34 tools and

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18 variations. The
"Quality Improvement
Stories" chapter has been
expanded to include
detailed case studies from
three Baldrige Award
winners. An entirely new

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chapter, "Mega-Tools:
Quality Management
Systems," puts the tools
into two contexts: the
historical evolution of
quality improvement and
the quality management

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systems within which the tools are used. This edition liberally uses icons with each tool description to reinforce for the reader what kind of tool it is and where it

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is used within the
improvement process.

Kanban Just-in Time at
Toyota
Managing Risk and
Reliability of Process
Plants

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JIT Implementation Manual
-- The Complete Guide to
Just-In-Time Manufacturing
The ZQC System
The ZQC System : a
Leader's Guide
Work that Makes Sense

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Operator-led Visuality
The Lean Six Sigma Black
Belt Handbook

Toyota's world-renowned success proves that just-in-time (JIT) makes other manufacturing practices obsolete. This simple but powerful

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book is based on the seminars given by Taiichi Ohno and other senior production staff to introduce Toyota's own supplier companies to JIT. It teaches the philosophy and implementation of what many call the most efficient production system

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in the world. Provides a clear structure for an introductory JIT training program. Explains every aspect of the JIT system, including how to set it up and how to refine it once it's in place. Shows how to use a simple visual system to control the

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production process. Every day more American companies are learning that JIT works outside Japan. Now you can get started with this step-by-step book which guides you through the implementation process. Every engineer, manager, supervisor, and

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worker should read this book to get the clearest, simplest, and most complete introduction to JIT available in English. Results at American companies after reading this book: Lead-time on one product was reduced from 12 weeks to 4

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days. Setup time on a large blanking press was reduced from eight hours to one minute and four seconds.

Work-in-process has been reduced 50 percent plant-wide. Factory floor space was opened up 30 to 40 percent in every one of their plants.

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"It is a book for manufacturing companies that are fighting desperately for survival and that will go to any length to improve their factories and overcome the obstacles to success. One could even call this book a 'bible' for corporate

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survival."—Hiroyuki Hirano Known
as the JIT bible in Japan, JIT
Implementation Manual — The
Complete Guide to Just-in-Time
Manufacturing presents the genius
of Hiroyuki Hirano, a top
international consultant with vast

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experience throughout Asia and the
West. Encyclopedic in scope, this
six-volume practical reference
provides unparalleled information
on every aspect of JIT—the waste-
eliminating, market-oriented
production system. This historic, yet

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timeless classic is just as crucial in
today's fast-changing global
marketplace as when it was first
published in Japan 20 years ago.
Covering all the techniques essential
to setting up a flow production
system in manufacturing, Volume 3:

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Flow Manufacturing — Multi-
Process Operations and Kanban
includes a basic introduction to the
relationship between inventory and
flow production and their roles in
manufacturing. It also provides
discussion of multi-process

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operations and precautions and
procedures for developing them.

Outlining the key topic of labor cost
reduction and steps to achieving it,
this definitive volume also covers
the essentials of kanban and visual
control systems in a flow

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manufacturing environment.

TPM leads to soaring productivity
when your operators are positively
and energetically involved in the
maintenance of their own
equipment. Autonomous
Maintenance for Operatorsteaches

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specific autonomous maintenance activities. For operators, supervisors, team leaders, and TPM coordinators, this book provides useful guidance and case study examples on autonomous maintenance. Activity boards, one-point lessons, photos,

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cartoons, and actual examples of implementation demonstrate the huge benefits of developing informed, motivated operators who take ownership of and improve their equipment. Shopfloor operators will learn: 4 skills they can develop to

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keep equipment running smoothly.
how to inspect for problems as they
clean equipment. ideas for
containing debris that shortens
equipment life. tips for effective
lubrication management. how to use
activity boards, meetings, and one-

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point lessons to promote TPM goals. This book assumes some familiarity with the steps of autonomous maintenance and focuses on specific autonomous maintenance activities. Although Lean and Six Sigma appear to be quite different, when

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used together they have shown to deliver unprecedented improvements to quality and profitability. The Lean Six Sigma Black Belt Handbook: Tools and Methods for Process Acceleration explains how to integrate these

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seemingly dissimilar approaches to
increase production speed while
decreas

Kaizen for the Shop Floor

The Lean Expert

Excelling in a High-Mix, Low-

Volume Environment

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Management Begins at the
Workplace

Autonomous Maintenance for
Operators

Tools and Methods for Process
Acceleration

Mistake-Proofing for Operators

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**" ... a step-by-step process that
can be used to help create a very
efficient error-free organization
that will be able to compete with
the best of companies"--Page 7.
With C. Martin Hinckley's new
book *Make No Mistake! An
Outcome Based Approach to***

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Mistake-Proofing, that vision can become a reality. If you work for a company that emphasizes traditional quality control methods, it's unlikely that you've seen defects eliminated despite your substantial efforts. Make No Mistake! clarifies the reasons

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why such traditional methods fail and shows how world-class quality can be achieved at a minimal cost through mistake-proofing – the practice of controlling virtually every source of potential errors. As the author states, "The great value of

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***mistake-proofing is that,
independent of the cause,
psychological factor, production
stage, or potential
consequences, it blocks or warns
about an undesired outcome at a
point in the process when the
consequences can be minimized."***

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Truly the first of its kind, Make No Mistake! is a compendium of the best methods for reducing complexity, variation, confusion and the other root causes of defects – but the centerpiece of this powerful mistake-proofing tool is an outcome-based

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classification system that focuses on preventing rather than detecting defects. Even more importantly, Hinckley's mistake-proofing documentation forms will help you adapt this methodology to your own defect prevention efforts. Make No

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Mistake! is an amazing compilation of mistake-proofing tools that is encyclopedic in scope. Because mistake-proofing is a skill that improves through familiarity with previous solutions, Hinckley's new classification systems is the key

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to rapidly finding outstanding solutions to current problems on the shop floor. Make No Mistake! is one book that will be invaluable in your company's quest for quality. Make No Mistake! includes: Over 200 mistake-proofing examples from

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***varied industries Easy-to-use
mistake-proofing documentation
forms you can use on the job
Introduction to principles of
mistake-proofing and design for
assembly A quick, step-by-step
methodology for developing
superior mistake-proofing***

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**concepts Listing of select
suppliers of mistake-proofing
devices**

***If your goal is 100% zero defects,
here is the book for you – a
completely illustrated guide to
poka-yoke (mistake-proofing) for
supervisors and shop-floor***

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workers. Many poka-yoke ideas come from line workers and are implemented with the help of engineering staff or tooling or machine specialists. The result is better product quality and greater participation by workers in efforts to improve your

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processes, your products, and your company as a whole. The first section of the book uses a simple, illustrated format to summarize many of the concepts and main features of poka-yoke. The second section shows 240 examples of poka-yoke

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improvements implemented in Japanese plants. The book: Organizes examples according to the broad issue or problem they address. Pinpoints how poka-yoke applies to specific devices, parts and products, categories of improvement methods, and

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processes. Provides sample improvement forms for you to sketch out your own ideas. Use Poka-yoke in study groups as a model for your improvement efforts. It may be your single most important step toward eliminating defects completely.

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(For an industrial engineering perspective on how source inspection and poka-yoke can work together to reduce defects to zero, see Shigeo Shingo's Zero Quality Control.)

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM

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that reports on how well equipment is running. It factors three elements ---the time the machine is actually running, the quantity of products the machine is turning out, and the quantity of good output - into a single combined score. Directly

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addressing those who are best positioned to track and improve the effectiveness of equipment, OEE for Operators defines basic concepts and then provides a systematic explanation of how OEE should be applied to maximize a piece of equipment's

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***productivity and recognize when
its efficiency is being
compromised. Features
Six Sigma and Beyond
Overall Equipment Effectiveness
Improving Product Quality by
Preventing Defects
Poka-Yoke***

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**Mistake-Proofing Simplified : An
Indian Perspective**

One-Piece Flow for Workteams

**Creating and Sustaining Visuality
on the Value-add Level**

*There is no widely
recognized method for
producing specifications of*

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*repair, improvement and
conversion work, yet
consistent documentation is
fundamental to good client
communications and
consistent pricing. This new
edition of a highly regarded
reference work sets out a*

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*method of producing
specifications for minor
works by prescribing the
common terminology and a
logical sequence for
scheduling work.*

*With the growing business
industry there is a large*

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demand for greater speed and quality, for projects of all natures in both small and large businesses. Lean Six Sigma is the result of the combination of the two best-known improvement methods: Six Sigma (making work

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*better, of higher quality)
and Lean (making work
faster, more efficient).*

*Lean Six Sigma For Dummies
outlines they key concepts
in plain English, and shows
you how to use the right
tools, in the right place,*

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and in the right way, not just in improvement and design projects, but also in your day-to-day activities. It shows you how to ensure the key principles and concepts of Lean Six Sigma become a natural part of how

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*you do things so you can get
the best out of your
business and accomplish your
goals better, faster and
cheaper. About the author
John Morgan has been a
Director of Catalyst
Consulting, Europe's leading*

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*provider of lean Six Sigma
solutions for 10 years.*

*Martin Brenig-Jones is also
a Director at Catalyst
Consulting. He is an expert
in Quality and Change
Management and has worked in
the field for 16 years.*

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The Zero Quality Control System (ZQC) is a mistake-proofing approach that prevents defects by monitoring processing conditions at the source and correcting errors that cause defects. Since it is human

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nature to make mistakes, ZQC does not blame people for errors, but instead finds ways to keep errors from becoming defects. In this breakthrough approach, mistake-proofing devices called poka-yoke are used to

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*check and give feedback
about each product or
operation in the process,
not just a sample. This book
introduces operators and
assembly workers to the
basic methodology of ZQC in
an easy-to-read format that*

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*covers all aspects of this
important manufacturing
improvement strategy.*

*Mistake-Proofing for
Operators includes the
instructional features that
are the signature of the
Shopfloor Series. In this*

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*series Productivity Press
Series)*
has taken the lead in adult
education by teaming with
instructional designers to
develop complete programs
for frontline learning. The
goal: to place powerful and
proven improvement tools

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such as ZQC and mistake-
proofing in the hands of
your company's entire
workforce. Winner of the
1990 Shingo Prize for
Excellence in Manufacturing,
Mistake-Proofing for
Operators is based on Zero

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*Quality Control: Source
Inspection and the Poka-Yoke
System by Shigeo Shingo.
This comprehensive book
provides the knowledge and
tools required to conduct a
human error analysis of
accidents. Serving as an*

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*excellent reference guide
for many safety
professionals and
investigators already in the
field.*

*Lean for the Entire Supply
Chain*

A Study of the Toyota

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Production System

*Standard Method of
Specifying for Minor Works
Mistake-proofing for
Operators
An Outcome-Based Approach to
Mistake-Proofing
Improving the Extended Value*

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Stream
Made-to-Order Lean

Mistake-Proofing for Operators
The ZQC System
Productivity Press
This volume addresses design
improvement from the perspective
of prevention by introducing

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readers to the tools of the Six
Sigma design process. The author
discusses the issues of designing
for Six Sigma, covering the topics
that any Shogun Six Sigma Master
must be familiar with: customer
satisfaction, quality function

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deployment, benchmarking, sys
While FMEA has helped many
companies improve quality by
teaching them how to avoid what
can go wrong, it doesn't show how
to make things go right. That is
what the Success Every Time

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(SET) does. Developed by renowned manufacturing visionary John Casey, SET defines a logic stream for engineers to strategically incorporate no-cost or low-cost error-proofing devices to help production operators. When SET is

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executed completely, failure is not an option. The operators interface with their parts and tools in such a way that either the product is made correctly, or the product/process is stopped. Operators can make only good parts—nothing else. For this

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reason, proper implementation of SET drives higher first time yield, increases customer satisfaction, improves warranty claims, improves profits, and helps you compete. John J. Casey has published multiple articles on quality initiatives

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and is well recognized in the Automotive Industry. Mr. Casey is seen as an automotive industry visionary and is cited as the father of GM's Global Quality Tracking System that was the cornerstone of GM's 85% improvement on

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inbound quality over a 4-year
period.

This book discusses a system for extending lean manufacturing across the entire supply chain. It is divided into three parts: planning and analysis of the lean extended

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value stream, implementation of a lean supply chain and sustaining and continuously improving the lean extended value chain.

The Quality Toolbox, Second Edition

The Human Factors Analysis and

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Classification System

Source Inspection and the Poka-
Yoke System

The Lean Primer - Solutions for the
Job Shop

No Eraser Needed - Mistake
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Six Sigma

Cellular Manufacturing

The Zero Quality Control System (ZQC) is a mistake-proofing approach that prevents defects by monitoring processing conditions at the source and

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correcting errors that cause defects. Since it is human nature to make mistakes, ZQC does not blame people for errors, but instead finds ways to keep errors from becoming defects. In this breakthrough approach, mistake-

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proofing devices called poka-yoke are used to check and give feedback about each product or operation in the process, not just a sample. This book introduces operators and assembly workers to the basic methodology of ZQC

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in an easy-to-read format that covers all aspects of this important manufacturing improvement strategy. Mistake-Proofing for Operators includes the instructional features that are the signature of the Shopfloor

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In this series Productivity Press has taken the lead in adult education by teaming with instructional designers to develop complete programs for frontline learning. The goal: to place powerful and proven

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improvement tools such as ZQC and mistake-proofing in the hands of your company's entire workforce. Winner of the 1990 Shingo Prize for Excellence in Manufacturing, Mistake-Proofing for Operators is based on Zero

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Quality Control: Source

Inspection and the Poka-Yoke
System by Shigeo Shingo

Visual tools are an essential part
of any lean transformation, and
understanding correct application
of appropriate tools is crucial.

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This book clearly illustrates how successful organizations, such as Boeing and Maytag, have implemented visual tools in their operations. It shows both their respective achievements and the challenges they faced. Visual

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Tools: Collected Practices and
Cases provides a variety of case
studies taken from articles
previously published in Lean
Manufacturer Advisor - the
monthly newsletter by
Productivity Press.

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There is much specialist material written about different elements of managing risks of hazardous industries, such as hazard identification, risk analysis, and risk management. Managing Risk and Reliability of Process

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Plants provides a systematic and integrated coverage of all these elements in sufficient detail for the reader to be able to pursue more detailed study of particular elements or topics from a good appreciation of the whole field.

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The reader would use this book to keep up to date with new developments and, if they are new to the job, to learn more about the subject. The text includes a chapter of case studies and worked examples -

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including examples of risk assessments, which is consistent with the approach taken throughout the book of applying real-life scenarios and approaches. * Provides a source for reasonable understanding

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across the whole field of risk management and risk assessment. * Focuses on the how, what, and why of risk management using a consistent and well organized writing style interspersed with case studies,

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examples, exercises, as well as end matter. * Fills a need in the area of risk assessment and risk management in the process and chemical engineering industry as an essential multi-audience reference/resource tool, useful to

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managers and students.

The Lean Expert: Educating and
Elevating Lean Practitioners
Throughout Your Organization
outlines a method that can help
organizations engage associates
and empower them to achieve

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"expert status" in the nine core principles of Lean. By implementing the Lean Discipline Expert process detailed in the book, companies will demonstrate to their associates that they believe they are the

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organization's greatest assets, while empowering them to make lasting improvements to the organization. The book provides a robust and proven process for creating a Lean culture. It outlines a method, with defined

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steps, for the development of
Lean Discipline Resource People
that will help associates achieve
"expert status" in the core Lean
principles of 5S-Visual
Management, Value Stream
Mapping, Standard Work, Total

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Productive Maintenance, Quick Changeover, Error Proofing, Process Problem Solving, Material Management, and Continuous Improvement. You will be able develop Lean strategies, create a Master

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Schedule, initiate activities for supporting goals and objectives, and complete a Train-the-Trainer class as well as achieve facilitation skills to teach, communicate, guide, and lead Lean overview training as well as

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comprehensive subject-matter training. In addition, you will understand how the Lean Discipline Expert process can help to support associate involvement at all levels and learn where and how the nine

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principles overlap and interact.

By engaging and empowering various levels of associates throughout the organization, you will provide strength and ownership for your business and, most importantly, your

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associates. The book includes access to additional resources on the book ' s page at www.crcpress.com. It includes a tracking mechanism for monitoring candidate progress, facilitation feedback forms, LDE

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checklists, and certificates of accomplishment you can use to acknowledge associates that achieve Lean Discipline Expert status.

Visual Tools

A Revolution in Manufacturing

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A Zero-Waste Environment with
Process Automation
Projects and Personal
Experiences
A Human Error Approach to
Aviation Accident Analysis
Mistake Proofing for Lean

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Healthcare

Achieving Success Every Time with Smarter FMEAs

*Written by the industrial engineer who
developed SMED (single-minute exchange
of die) for Toyota, A Revolution in
Manufacturing provides a full overview of*

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this powerful just in time production tool. It offers the most complete and detailed instructions available anywhere for transforming a manufacturing environment in ways that will speed up produ
A POWERFUL GUIDE to help you establish a culture of defect prevention by idea creation and team engagement. It

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shows how the habit of Mistake Proofing can be inculcated in to the DNA of the organisation. Drawing upon several years of research and hands on experience at various companies. Filled with more than 100 explicit EXAMPLES collected from diverse companies and day to day life, organised into a coherent framework of

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practical concepts that can be applied by managers both at Manufacturing and Service environment. 'MISTAKE PROOFING SIMPLIFIED' provides a master blueprint for a structured deployment and tips for sustenance of the program in a very simple yet effective manner. The book will help you understand

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*the concept and develop your own strategy
for step by step mechanism for a system
towards ZERO DEFECT PROCESS.*