Oee For Operators Overall Equipment Effectiveness The Shopfloor Series

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems
A Revolution in Manufacturing
Understanding, Measuring, and Improving Overall Equipment Effectiveness
Implementing Industry 4.0
Autonomous Maintenance for Operators
The OEE Primer
Oee for Operators
Overall Equipment Effectiveness
The OEE Primer
Proceedings of International Conference in Mechanical and Energy Technology
TPM in Process Industries
Introduction to TPM
Lean and Green Manufacturing
Advances in Mechanical and Materials Technology
Advances in Mechatronics, Manufacturing, and Mechanical Engineering
Overall Equipment Effectiveness (Oee)
Designing Food Safety and Equipment Reliability Through Maintenance Engineering
Quick Changeover for Operators
OEE for Operators
Just-In-Time for Operators
Advances in Industrial and Production Engineering
An Introduction to Predictive Maintenance
Advances in Systems Engineering
Super7 Operations
Oee, Inc.
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Maximize the Effective Power of Oee Analysis
Autonomous Maintenance in Seven Steps
Working with Machines
Operations Management and Systems Engineering
7 Autonomous Maintenance Steps Poster
Practical TPM
Overall Equipment Effectiveness (OEE). Approaches for Improvement
5S for Operators
Kaizen for the Shop Floor
TPM Development Program
Sustainability in Industry 4.0

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JONAS PITTS

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems Productivity Press
Hiroyuki Hirano's five pillars of the visual workplace: sort, set in order, shine, standardize and sustain are the most fundamental and often overlooked aspects in continuous improvement initiatives. Together, these concepts form the framework of the 5S System, a set of principles whose simplicity often betrays its powerful impact on the workplace.So much of the 5S System seems like common sense, that it is astonishing how often such seemingly simple practices are absent in manufacturing operations. This is a hands-on book that explains the principles, rationale and implementation details of the 5S System. Easy-to-read and apply, each section of the text is loaded with questions, outlines, summaries, diagrams and illustrations. Most importantly, 5S for Operators provides the foundational knowledge that is essential for implementing not just the 5S System, but overall manufacturing improvements like shorter equipment changeovers, just-in-time inventory, total quality management and total productive maintenance. Since its publication in 1996, 5S for Operators has been and continues to be hugely popular and its popularity is not hard to understand. 5S has proven its worth in one company after another, consistently reducing waste, guaranteeing product quality, ensuring safety and increasing the bottom line. With 5S for Operators, the 5S System can have the same profound effect on your operations.
A Revolution in Manufacturing Productivity Press
Are you ready to implement a just-in-time (JIT) manufacturing program but need some help orienting employees to the power of JIT? Here is a concise and practical guide to introduce equipment operators, assembly workers, and other frontline employees to the basic concepts, techniques, and benefits of JIT practices. Like all Shop Floor Series books, Just-in-Time for Operators presents concepts and tools in simple and accessible language. The book includes ample illustrations and examples to explain basic JIT concepts and some of the changes people may encounter in a JIT implementation.Key definitionsElimination of process wasteLeveled production, kanban, and standard workU-shaped cells and autonomationJIT support techniquesThe JIT approach is simple and universal -- it works in companies all over the world. Educating employees ensures their full participation and allows them to share their experiences and ideas more effectively.
Understanding, Measuring, and Improving Overall Equipment Effectiveness CRC Press
A large and growing number of manufacturers are realizing the substantial financial and environmental benefits of sustainable business practices. To develop more sustainable societies, industries need to better understand how to respond to environmental, economic, and social challenges and transform industrial behavior. The objective of this book is to provide the required knowledge and accelerate the transition towards a sustainable industrial system. The book will help industries to enhance operational efficiency by reducing costs and waste. It will help them increase customer response, reach new customers, and gain competitive advantage. It offers innovation, scenario planning, and strategic analysis that goes beyond compliance, as well as case studies and remedies to the industry 4.0 challenges. Professionals, as well as students, can refer to this book to add to their knowledge on Industry 4.0 and develop new ideas and solutions to the existing and future problems.
Implementing Industry 4.0 Springer Nature
This book comprises select peer-reviewed contributions from the 6th International Conference on Production and Industrial Engineering (CPIE – 2019). The volume focuses on latest research in the field of Industrial and Systems Engineering, and its allied areas. Articles on variety of topics such as Human Factors Engineering, Lean Manufacturing, Six Sigma, Logistics and Supply Chain Management, Operations Research, Quality Engineering, Measurement and Control, Reliability and Maintenance Engineering, Green Supply Chain Management, Modelling and Simulation, Sustainability, Technology Management, Agile and Flexible Manufacturing, Technology Management and Computer Aided Manufacturing are discussed in this book. Given the range of topics covered, the book will be useful for students, researchers, and professionals interested in different areas of Industrial and Systems Engineering.
Autonomous Maintenance for Operators Apress
How do companies in high labor cost countries manage to remain competitive? In western manufacturing, the more manual a process, the more severe the competitive handicap of high wages. Full automation would make labor costs irrelevant but remain impractical in most industries. Most successful manufacturing processes in advanced economies are neither fully manual nor fully automatic -- they involve interactions between small numbers of highly skilled people and machines that account for the bulk of the manufacturing costs and thereby remain competitive. In Working with Machines: The Nuts and Bolts of Lean Operations With Jidoka, author Michel Baudin explains how performance differences that can be observed from one factory to the next are due to the way people use the machines -- from the human interfaces of individual machines to the linking of machines into cells, the management of monuments and common services, automation, maintenance, and production control.
The OEE Primer Routledge
This second edition of An Introduction to Predictive Maintenance helps plant, process, maintenance and reliability managers and engineers to develop and implement a comprehensive maintenance management program, providing proven strategies for regularly monitoring critical process equipment and systems, predicting machine failures, and scheduling maintenance accordingly. Since the publication of the first edition in 1990, there have been many changes in both technology and methodology, including financial implications, the role of a maintenance organization, predictive maintenance techniques, various analyses, and maintenance of the program itself. This revision includes a complete update of the applicable chapters from the first edition as well as six additional

chapters outlining the most recent information available. Having already been implemented and maintained successfully in hundreds of manufacturing and process plants worldwide, the practices detailed in this second edition of An Introduction to Predictive Maintenance will save plants and corporations, as well as U.S. industry as a whole, billions of dollars by minimizing unexpected equipment failures and its resultant high maintenance cost while increasing productivity. A comprehensive introduction to a system of monitoring critical industrial equipment Optimize the availability of process machinery and greatly reduce the cost of maintenance Provides the means to improve product quality, productivity and profitability of manufacturing and production plants

Oee for Operators Springer Nature

An innovative book that centers on developing and measuring true Overall Equipment Effectiveness (OEE), which as the author demonstrates, correlates with factory output and has a strong link to profitability.

Overall Equipment Effectiveness Management Upgrade Shop

Existing maintenance engineering techniques pursue equipment reliability with a focus on minimal costs, but in the food industry, food safety is the most critical issue. This book identifies how to ensure food product safety through maintenance engineering in a way that produces added value and generates real profits for your organization. Integrating food safety techniques with reliability and maintenance engineering techniques, Designing Food Safety and Equipment Reliability Through Maintenance Engineering details a maintenance design process that captures all conceivable critical factors in food manufacturing lines. While maintenance engineering normally starts with equipment reliability, this book starts with product safety to identify equipment criticalities and maintenance solutions. The text examines the problems currently facing the food industry and introduces powerful solutions to help food producers and consultants manage both food safety and manufacturing effectiveness. It presents an innovative tool for weighing food, human, and equipment criticalities and also describes how to maximize maintenance design outcome through the empowerment of equipment operators and their close cooperation with maintenance and quality specialists. Detailing how to design reliable task lists, the book includes case studies that illustrate the problems that low equipment reliability can create for your customers and your company’s image. It outlines key performance indicators that can help producers and suppliers easily identify quality, availability, and productivity gaps. It also highlights critical factors that can help you avoid process bottlenecks.

The OEE Primer Productivity Press

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

Proceedings of International Conference in Mechanical and Energy Technology Taylor & Francis

Performance . . . downtime . . . quality . . . availability . . . defects . . . How well do you know your machines? Do you truly know how substantial your equipment-related losses are? Calculating overall equipment effectiveness is a crucial element of any serious commitment to reduce equipment- and process-related wastes through Total Productive Maintenance and other lean manufacturing methods. Success with TPM, in particular, depends on consistently and accurately measuring machine and process performance. "OEE Toolkit: Practical Software for Measuring Overall Equipment Effectiveness" provides detailed information daily on how effectively your machines are running by quantifying and visually highlighting where losses in availability, speed, and quality occur and how they impact overall equipment effectiveness. This calculation, made easy by the OEE Toolkit software, provides a powerful performance measurement on which you can base systematic, focused improvement efforts. Capturing and processing performance data on critical machines is challenging. Daily data collection and analysis often involve time-consuming and costly processes. Now, Productivity's OEE Toolkit eliminates most of the burden of data processing. The OEE Toolkit's emphasis on visual management helps you get more information from collected data. You enter very small amounts of data, the OEE Toolkit does the calculations and analysis for you, and you get more information about your machine performance than you ever thought possible. In today's competitive environment you cannot settle for a goal less ambitious than the total elimination of breakdowns and other losses. You can't improve what you don't measure, and OEE is a powerful indicator of where your losses are occurring. The fine-tuned, automated analysis of the OEE Toolkit pinpoints where to make improvements that will significantly impact your bottom line. There are no excuses for ineffective equipment, only causes. Expose those causes and root them out today with the OEE Toolkit. Key Benefits: One universal tool -- processes information about machines through the same interface (Basic package covers 10 machines) Calculates losses in availability, performance, and quality Easy to learn and use Every operator can participate Minimal input, maximal information Flexible to the needs of the user Lets you measure the performance of many machines Supports operators in learning about equipment and focusing on the losses Expandable to future needs Key Features: Data-entry screen designed for optimal speed and ease of use Extensive data analysis for concrete information to pinpoint the causes of losses Standardized reporting formats for effective comparisons of equipment effectiveness Color-coded visual control features for determining at a glance whether OEE is in your acceptable range Many ways to analyze and look at data, including: Bar/line graphs of OEE and its components for a specific shift or team for a specificday or period Bar/line graphs of OEE trends over time Bar graphs of OEE and losses in effectiveness over time Pareto charts for time use categories, sorted by minutes, frequency, and average duration Bar graph of specific time use categories over time Commonly used reliability and maintainability indicators: mean time betweenfailures, failure frequency rate, mean time to repair, and failure rate Mountain graph of production output (good product, scrap, rework) over time Bar graph of production and on status (in relation to user-defined target output for each machine) for all machines tracked during a period Pie chart of utilization categories Contents Software CD 112-page manual System Requirements Personal computer with 100 MHz (or higher) Pentium processor 16 Mbytes or more of system RAM 10 Mbytes free hard disk space SVGA 800 x 600 video adapter 4X CD-ROM DRIVE Microsoft Windows-supported color printer Windows 95, Windows 98, or Windows NT 4.0 (with Service Pack 2 or greater) ABOUT THE AUTHOR Arno Koch has been involved in the information technology field for over ten years and has trained hundreds of people in the fields of automation and systems administration and participated in numerous IT projects. He currently is a senior

consultant with Blom Consultancy, Netherlands, Europe's leading World Class Manufacturing consultancy bureau. There, he merges his knowledge of IT, administration, and management with the Japanese approach to makingsystems work. Call your Productivity Press Account Manager at 800-394-6868 about multiple-userlicensing and network pricing. Includes: Software CD, 112-page manual, 30 days phone and email technical support Basic package tracks 10 machines. Call for pricing for additional machines

TPM in Process Industries Routledge

Process industries have a particularly urgent need for collaborative equipment management systems, but until now have lacked for programs directed toward their specific needs. TPM in Process Industries brings together top consultants from the Japan Institute of Plant Maintenance to modify the original TPM Development Program. In this volume, they demonstrate how to analyze process environments and equipment issues including process loss structure and calculation, autonomous maintenance, equipment and process improvement, and quality maintenance. For all organizations managing large equipment, facing low operator/machine ratios, or implementing extensive improvement, this text is an invaluable resource.

Introduction to TPM Springer Nature

As distinguished from autonomous maintenance, where the main goal is to restore basic conditions of cleanliness, lubrication, and proper fastening to prevent accelerated deterioration, FEI looks at specific losses or design weaknesses that everyone previously thought they just had to live with. Once your TPM operator teams are progressing with their daily autonomous maintenance activities, you will want to take the next advanced step in TPM training with this book. Key Features: a simple and powerful introduction to P-M Analysis hints for unraveling breakdown analysis numerous ideas for simplifying and shortening setups ideas for eliminating minor stoppages and speed losses basic concepts of building quality into processing real-life examples from a leading Japanese tool company Educate and empower all your workers to support your TPM improvement activities with

Lean and Green Manufacturing iUniverse

This book provides a stage-by-stage integration of lean and green manufacturing paradigms to achieve environmental and economic benefits. The book includes chapters on conceptual development for incorporating the lean and green paradigm, and methods, tools and techniques for developing and integrating lean manufacturing. Several case studies which demonstrate the benefits of integrating lean and green manufacturing techniques are also covered here. The contents of this book are expected to support researchers and practitioners in the implementation of integrated lean and green manufacturing technologies.

Advances in Mechanical and Materials Technology Springer Nature

TPM (Total Productive Maintenance) is an innovative approach to maintenance. This book introduces TPM to managers and outlines a three-year program for systematic TPM development and implementation.

Advances in Mechatronics, Manufacturing, and Mechanical Engineering Industrial Press Inc.

Save 25% off the combined retail price when you buy this Book and CD-ROM combination edition of this popular book. The CD contains the complete contents of the book, fully searchable, with interactive table of contents and index, in Adobe's popular portable document format (PDF). Written primarily for those responsible for the reliability of equipment and the production operation, this innovative book centers on developing and measuring true Overall Equipment Effectiveness (OEE). The author demonstrates that true OEE correlates with factory output, provides a methodology to link OEE with net profits that can be used by reliability managers to build solid business cases for improvement projects, and draws on his own experience by presenting successful improvement applications in every chapter. Additionally, it will also help practitioners better understand Total Productive Maintenance (TPM) and develop an effective foundation to support Reliability-Centered Maintenance (RCM).

Overall Equipment Effectiveness (Oee) CRC Press

A valuable tool for establishing and maintaining system reliability, overall equipment effectiveness (OEE) has proven to be very effective in reducing unscheduled downtime for companies around the world. So much so that OEE is quickly becoming a requirement for improving quality and substantiating capacity in leading organizations, as well as a required area of study for the ISO/TS 16949. Breaking down the methodology from a historical perspective, The OEE Primer: Understanding Overall Equipment Effectiveness, Reliability, and Maintainability explores the overall effectiveness of machines and unveils novel methods that focus on design improvement—including hazard analysis, rate of change of failure (ROCOF) analysis, failure rate finite element analysis (FEA), and theory of inventive problem solving (TRIZ). It covers loss of effectiveness, new machinery, electrical maintenance issues, Weibull distribution, measurement techniques, and mechanical and electrical reliability. The book also: Discusses Reliability and Maintainability (R&M), not as tools to be used in specific tasks, rather as a discipline Covers the application of OEE as an overall improvement tool Assesses existing and new equipment from classical, reliability, and maintainability perspectives Includes downloadable resources with more than 100 pages of appendices and additional resources featuring statistical tables, outlines, case studies, guidelines, and standards Introducing the classical approach to improvement, this book provides an understanding of exactly what OEE is and how it can be best applied to address capacity issues. Highlighting mechanical and electrical opportunities throughout, the text includes many tables, forms, and examples that clearly illustrate and enhance the material presented.

Designing Food Safety and Equipment Reliability Through Maintenance Engineering Elsevier

When author and operational excellence consultant Menno R. van Dijk joined ING Domestic Bank in the Netherlands, the company had already been using the Lean system a few years. But van Dijk felt something was missing—the fun factor: experiments, improvements, a supportive management style, and teamwork. He wasn’t seeing the sense of invigoration and renewal that comes when employees on the shop floor experience the improvement brought on by a Lean implementation. He went to work and created a new approach—Super7—that took the Lean system in financial services to the next level. It radically reduced customer waiting times with less management and more responsibility on the shop floor. In Super7 Operations, he discusses Super7 in detail—how it was developed, what it does for customers, how it changes culture on the shop floor, and how it affects employees and managers. He explains its benefits, which include flexible capacity to cope with fluctuating demand—no inventory, no waiting; small, autonomous teams committed to getting the job done for their customers; output management and delegated responsibilities; and continuous

improvement of performance without the need for tight controls. Including case studies, this guide provides valuable tips and tricks for implementing Super7 in an organization that is looking for ways to improve their customers' experience.

Quick Changeover for Operators Routledge

TPM leads to soaring productivity when your operators are positively and energetically involved in the maintenance of their own equipment. Autonomous Maintenance for Operatorsteaches 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, 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 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-point lessons to promote TPM goals. This book assumes some familiarity with the steps of autonomous maintenance and focuses on specific autonomous maintenance activities.

OEE for Operators Springer Nature

This book features high-quality, peer-reviewed papers from the 28th International Conference Systems Engineering (ICSEng 2021), held at Wrcław University of Science and Technology, Wrocław, Poland, on December 14–16, 2021. Presenting the latest developments and technical solutions in systems engineering, it covers a variety of topics, such as analog and digital hardware systems, artificial intelligence and machine learning, distance learning & games, E-business systems, financial technology, general control systems, hyper-automation and Industry 4.0, Internet of things, sensor and biometric systems, medical systems and applications, robotics, computer vision, HCI, and parallel and distributed systems. As such, it helps those in the computer industry and academia to use the advances in next-generation systems engineering technology to shape real-world applications.

Just-In-Time for Operators Industrial Press

The powerful knowledge contained in this book can make your workplace more productive, your job simpler, and everything more satisfying. It's about how to do equipment or product changeovers in record time--often in less than 10 minutes. The method you'll learn here is called SMED, short for "Single-Minute Exchange of Die" (the "single" here means a single-digit number of minutes). Developed from a longer book, A Revolution in Manufacturing: The SMED System(cat no. PP9903), written for managers, this book is written for frontline production and assembly associates. It presents an overview of the reasons why SMED is important for companies and employees, sets out the three basic stages of SMED, and then devotes a separate chapter to each of these stages. The first chapter of the book is like an "owner's manual" that tells you how to get the most out of your reading time by using the margin assists, summaries, and other features of the book to help pull out exactly what you need. One of the most effective ways to use this book is to read and discuss it with other employees. The authors planned the book so that it can be used this way, organizing the book into chunks of information that can be covered in a series of short sessions. Each chapter includes reflection questions to stimulate group discussion. A Learning Package is also available (catalog no.PP7126), which includes a leader's guide, overhead transparencies to summarize major points, and color slides showing examples of SMED applications in different kinds of companies. s of the book to help pull out exactly what you need. One of the most effective ways to use this book is to read and discuss it with other employees. The authors planned the book so that it can be used this way, organizing the book into chunks of information that can be covered in a series of short sessions. Each chapter includes reflection questions to stimulate group discussion. A Learning Package is also available (catalog no.PP7126), which includes a leader's guide, overhead transparencies to summarize major points, and color slides showing examples of SMED applications in different kinds of companies.

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