

Oee For Operators Overall Equipment Effectiveness The Shopfloor Series

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Oee for Operators - Productivity Press Development Team 2018-06-28

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM 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 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 productivity and recognize when its efficiency is being compromised. Features

Advances in Manufacturing - Adam Hamrol 2017-10-18

This book covers a variety of topics in material, mechanical, and management engineering, especially in the area of machine design, product assembly, measurement systems, process planning and quality control. It describes cutting-edge methods and applications, together with exemplary case studies. The content is based on papers presented at the 5th International Scientific-Technical Conference (MANUFACTURING 2017) held in Poznan, Poland on 24-26 October 2017. The book brings together engineering and economic topics, is intended as an extensive, timely and practice-oriented reference guide for researchers and practitioners, and is expected to foster better communication and closer cooperation between universities and their business and industry partners.

Implementing Industry 4.0 - Carlos Toro 2021-04-03

This book relates research being implemented in three main research areas: secure connectivity and intelligent systems, real-time analytics and manufacturing knowledge and virtual manufacturing. Manufacturing SMEs and MNCs want to see how Industry 4.0 is implemented. On the other hand, groundbreaking research on this topic is constantly growing. For the aforesaid reason, the Singapore Agency for Science, Technology and Research (A*STAR), has created the model factory initiative. In the model factory, manufacturers, technology providers and the broader industry can (i) learn how I4.0 technologies are implemented on real-world manufacturing use-cases, (ii) test process improvements enabled by such technologies at the model factory facility, without disrupting their own operations, (iii) co-develop technology solutions and (iv) support the adoption of solutions at their everyday industrial operation. The book constitutes a clear base ground not only for inspiration of researchers, but also for companies who will want to adopt smart manufacturing approaches coming from Industry 4.0 in their pathway to digitization.

Advances in Mechanical and Materials Technology - Kannan Govindan 2021-10-11

This book presents select papers from the International Conference on Energy, Material Sciences and Mechanical Engineering (EMSME) - 2020. The book covers the three core areas of energy, material sciences and mechanical engineering. The topics covered include non-conventional energy resources, energy harvesting, polymers, composites, 2D materials, systems engineering, materials engineering, micro-machining, renewable energy, industrial engineering and additive manufacturing. This book will be useful to researchers and professionals working in the areas of mechanical and industrial engineering, materials applications, and energy technology.

Quality Costing - Barrie G. Dale 2017-07-05

Quality costs help to show the importance of quality-related activities to management; they demonstrate the cost of non-quality to an organization; they track the causes and effects of the problem, enabling the working out of solutions using quality improvement teams, and then monitoring progress. As a technique in the introduction and development of TQM, quality costing is a powerful tool for enhancing a company's effectiveness. Quality Costing provides pragmatic advice on how to set about introducing and developing a quality costing system and using the data that emerges. This third edition (strengthened by additional data from a range of organizations) provides sound practical guidance on how to define, identify, collect, measure, analyse, report and use quality costs. This established text has proved invaluable to managers and quality professionals, students and academics alike - the new edition ensures its continued position as the leading book in the field.

Value Stream Management - Don Tapping 2002-05-06

The Value Stream Management System simplifies the planning process for lean implementation, ensuring quick deployment and greater success. It links the metrics and reporting required by management with the lean tools needed on the manufacturing floor. The central feature of this illustrative and engaging book is the value stream management storyboard, a tool representing an eight-step process for lean implementation. The storyboard brings together people, tools, metrics, and reporting into one visual document. The authors stress the importance of reaching beyond single-point kaizens to ensure a sustainable lean implementation process. Many people use the value stream map as an individual tool, but not within the context of a proven overall system. Value Stream Management: Eight Steps to Planning, Mapping, and Sustaining Lean Improvements shows you how to use mapping as part of a complete system for lean implementation. The final outcome of Value Stream Management is the creation of a complete, visual plan for lean transformation - and the mastery of the skills required to implement that plan. Instead of just using Toyota Production System Tools, the authors encourage you to create your own lean production system. Value Stream Management will help you to complete your process and sustain it! BONUS CD! Along with this book you receive a CD containing a lean assessment tool, a storyboard template, useful charts, a team charter, forms, reports, and worksheets. DVD Package (see Catalog No. PP7338) A training aid to implement those principles taught in the book, a training video is available that teaches managers how to train lean teams. It starts with an overview of value stream management and the basics of lean. Subsequent lessons teach how to map current and future states; how to create action plans for implementation and follow-through; and how to develop a storyboard that communicates the entire process. Finally, a computer-generated "virtual factory" shows how the system comes together and how lean actually works. Viewers will see value stream management in action at four major companies. The package includes a facilitator's guide that provides information on how to use the package and an overview of each training module, and a participant guide,

Advances in Production Management Systems - Jan Olhager 2007-12-24

This book brings together some of the latest thinking by leading experts from

around the world on integrating systems and strategies in production management and related issues that are relevant for making production into a competitive resource for the firm. This book is composed of five parts, each focused on a specific theme: Linking systems and strategies; Strategic operations management; IS/IT applications in the value chain; Modelling and simulation; Improving operations.

Total Productive Maintenance - Steve Borris 2006-01-21

Reduce or eliminate costly downtime Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a framework for operational strategies and day-to-day management and training techniques that will keep their equipment running at top efficiency.

Poka-Yoke - Nikkan Kogyo Shimbun 1989-02-01

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 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 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 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 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. (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 Simplified: Analyzing OEE to find the Improvement Opportunities - Mohammed Hamed Ahmed Soliman 2020-09-24

Overall Equipment Effectiveness: A measurement of total productive maintenance (TPM) that quantifies how efficiently equipment is used. OEE is derived from three factors: The availability rate calculates the percentage of scheduled time lost due to equipment breakdowns and changes. The operating speed losses--running at rates slower than the design speed and brief stops--are measured by the performance rate. The quality rate calculates the percentage of the total parts run that are lost to scrap and rework. OEE is calculated by multiplying those three components. Each one presents numerous improvement opportunities. The six primary losses, or failures, modifications, small stoppages, lower operating speeds, and scrap, are often the focus of OEE but some businesses also include other measures they deem significant.

Lean Manufacturing -

A Revolution in Manufacturing - Shigeo Shingo 2019-01-22

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

OEE for Operators - Productivity Press. Development Team 1999

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM 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 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 productivity and recognize when its efficiency is being compromised. Features.

Urban Freight Transportation Systems - Ralf Elbert 2019-09-28

Urban Freight Transportation Systems offers new insights into the complexities of today's urban freight transport system. It provides a much needed multidisciplinary perspective from researchers in not only transportation, but also engineering, business management, planning and the law. The book examines numerous critical issues, such as strategies for delivery, logistics and freight transport spatial patterns, urban policy assessment, innovative transportation technologies, urban hubs, and the role factories play in the urban freight transport system. The book offers a novel conceptual approach for addressing the problems of production, logistics and traffic in an urban context. As most of the world's population now live in cities, thus significantly increasing commercial traffic, there are numerous challenges for efficiently and sustainably delivering goods into cities. This book provides solutions and tactics to those challenges. Includes interdisciplinary contributors from around the globe Provides never-before-published original research to help users stay current and develop a deeper understanding of the field Presents the methods and results of research that is useful for both academics and practitioners

Operations Management and Systems Engineering - Anish Sachdeva 2020-08-26

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.

The Goal - Eliyahu M. Goldratt 2016-08-12

Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new business management concepts and systems. This 20th anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, The Goal is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

Quick Changeover for Operators - Shigeo Shingo 2018-06-28

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.

Advances in Industrial and Production Engineering - Rakesh Kumar Phanden 2021-03-21

This book comprises the select proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2020. In particular, this volume discusses different topics of industrial and production engineering such as sustainable manufacturing processes, logistics, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as industry professionals.

7 Autonomous Maintenance Steps Poster - Enna 2017-05-16

The 7 Autonomous Maintenance Steps poster is used during an implemented TPM program to ensure that all maintenance staff and operators are clear on the principles for autonomous maintenance.

TPM - Peter Willmott (Chartered Engineer) 2019

Maintenance and Reliability Best Practices - Ramesh Gulati 2009

Practical TPM - James Leflar 2001-01-05

Agilent Technologies, formerly Hewlett-Packard's Test and Measurement Division, operates an integrated circuit fabrication plant in Fort Collins, Colorado. Guided by Masaji Taijiri, the author of 7 Steps to Autonomous Maintenance (see page 34), author Jim Leflar and his team at Agilent developed a complete TPM program for the complex equipment on their shop floor. Drawn from these experiences, Practical TPM is a must read for anyone who wants to begin successful TPM implementation. Part I explains the fundamental concepts of TPM, including the six basic principles of TPM, the goals of TPM, cultural changes resulting from TPM, and the keys to successful implementation. Part II - the heart of the book - describes, in step-by-step detail, the evolution of Agilent's TPM program. Each phase is clearly defined and demonstrated; the working tools and systems developed by the Agilent TPM team in the process are discussed at length. To conclude, Part III focuses on developing a vision and a strategy for your own successful TPM program. Replete with annotated photographs and illustrations documenting Agilent's successful program, Practical TPM: Successful Equipment Management at Agilent Technologies offers an invaluable roadmap to TPM implementation. The book covers: A step-by-step TPM program as implemented at a major US corporation The 5-why analysis method Examples of one-point lessons Using visual controls in a TPM program Tools for understanding equipment failures Improving machine productivity Improvement metrics Master checklists and forms Developing activity boards Appendices

containing examples of maintenance training materials For a PDF file with the preface and table of contents click here. For a PDF file with the first chapter click here.

An Introduction to Predictive Maintenance - R. Keith Mobley 2002-10-24

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

Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology - George Q. Huang 2009-12-12

This Proceedings volume contains articles presented at the CIRP-Sponsored International Conference on Digital Enterprise Technology (DET2009) that takes place December 14-16, 2009 in Hong Kong. This is the 6th DET conference in the series and the first to be held in Asia. Professor Paul Maropoulos initiated, hosted and chaired the 1st International DET Conference held in 2002 at the University of Dham. Since this inaugural first DET conference, DET conference series has been successfully held in 2004 at Seattle, Washington USA, in 2006 at Setubal Portugal, in 2007 at Bath England, and in 2008 at Nantes France. The DET2009 conference continues to bring together International expertise from the academic and industrial fields, pushing forward the boundaries of research knowledge and best practice in digital enterprise technology for design and manufacturing, and logistics and supply chain management. Over 120 papers from over 10 countries have been accepted for presentation at DET2009 and inclusion in this Proceedings volume after stringent refereeing process. On behalf of the organizing and program committees, the Editors are grateful to the many people who have made DET2009 possible: to the authors and presenters, especially the keynote speakers, to those who have diligently reviewed submissions, to members of International Scientific Committee, Organizing Committee and Advisory Committee, and to colleagues for their hard work in sorting out all the arrangements. We would also like to extend our gratitude to DET2009 sponsors, co-organizers, and supporting organizations.

Advances in Systems Engineering - Leszek Borzowski 2021-12-10

This book features high-quality, peer-reviewed papers from the 28th International Conference Systems Engineering (ICSEng 2021), held at Wrocław 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.

Maximize the Effective Power of Oee Analysis - Arno Koch 1999-04-28

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 specific day 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 between failures, 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 making systems work. Call your Productivity Press Account Manager at 800-394-6868 about multiple-user licensing 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

Introduction to TPM - Seiichi Nakajima 1988

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.

Proceedings of International Conference in Mechanical and Energy Technology - Sanjay Yadav 2020-06-01

This book presents selected peer-reviewed papers from the International Conference on Mechanical and Energy Technologies, which was held on 7-8 November 2019 at Galgotias College of Engineering and Technology, Greater Noida, India. The book reports on the latest developments in the field of mechanical and energy technology in contributions prepared by experts from academia and industry. The broad range of topics covered includes aerodynamics and fluid mechanics, artificial intelligence, nonmaterial and nonmanufacturing technologies, rapid manufacturing technologies and prototyping, remanufacturing, renewable energies technologies, metrology and computer-aided inspection, etc. Accordingly, the book offers a valuable resource for researchers in various fields, especially mechanical and industrial engineering, and energy technologies.

Autonomous Maintenance in Seven Steps - Fumio Gotoh 2020-06-30

Autonomous maintenance is an especially important pillar of Total Productive Maintenance (TPM) because it enlists the intelligence and skills of the people who are most familiar with factory machines-- equipment operators. Operators learn the maintenance skills they need to know through a seven-step autonomous maintenance program. Most companies in the West stop after implementing the first few steps and never realize the full benefits of autonomous maintenance. This book contains comprehensive coverage of all seven steps--not just the first three or four. It includes: An overview of autonomous maintenance features and checklists for step audits to certify team achievement at each AM step. TPM basics such as the six big losses, overall equipment effectiveness (OEE), causes of losses, and six major TPM activities. An implementation plan for TPM and five countermeasures for achieving zero breakdowns. Useful guidelines and case studies in applying AM to manual work such as assembly, inspection, and material handling. Integrates examples from Toyota, Asai Glass, Bridgestone, Hitachi, and other top companies. By treating machines as partners and taking responsibility for them, you get machines that you can rely on and help maintain an energized and responsive workplace. For companies that are serious about taking autonomous maintenance beyond mere cleaning programs, this is an essential sourcebook and implementation support.

Total Productive Maintenance - Terry Wireman 2004

The financial approach to Total Production Maintenance.

Overall Equipment Effectiveness (OEE). Approaches for Improvement - Martin Greiner 2015-12-02

Scientific Essay from the year 2015 in the subject Business economics - Operations Research, Comenius University in Bratislava (Faculty of Management), language: English, abstract: Overall Equipment Effectiveness (OEE) is a ratio of the actual output over the figure it could be theoretically, and is calculated by a multiple of three components, all of which relate to actual versus theoretical values; availability, performance and quality (Lannone and Nenni, 2013). Another relevant interpretation of the acronym OEE was devised by Vijayakumar and Gajendran (2014, p. 47), providing three principles for maximising the OEE value, where O represents its objective of accomplishing organisational goal(s), E is the efficiency resulting from doing things right, and E for effectiveness which is a consequence of doing the right thing. The major purpose of OEE is used to improve overall manufacturing production performance. The measurement demonstrates how well the production process matches the planned process, its value is reliant on the multiple of the three components, availability, performance and quality but industry average values are well below the 100% figure. In reality world class performance is regarded as and OEE value equivalent to 85%, however, in most cases the actual figure is much lower, between 60% and 70% (Lannone and Nenni, 2013). Automotive manufacturers who are able to reduce the length of manufacturing

processes by as little as a few seconds can leverage productivity by one or two extra vehicles a day, generating additional revenue in the long term (Montpass, 2014). Hence in this presentation the reasons for the gap are appraised, particularly in relation to automotive manufacturing. Initially an overview of each of the components and the factors that most negatively impact on the OEE value are provided, followed by the most up to date interventions that are being employed to improve OEE. In an industry in which consumption is declining (Marketline, 2015) and competition for sales increasingly fierce, the OEE value is vital to productivity and competitive advantage.

Manufacturing Performance Management using SAP OEE - Dipankar Saha 2016-06-07
Learn how to configure, implement, enhance, and customize SAP OEE to address manufacturing performance management. Manufacturing Performance Management using SAP OEE will show you how to connect your business processes with your plant systems and how to integrate SAP OEE with ERP through standard workflows and shop floor systems for automated data collection. Manufacturing Performance Management using SAP OEE is a must-have comprehensive guide to implementing SAP OEE. It will ensure that SAP consultants and users understand how SAP OEE can offer solutions for manufacturing performance management in process industries. With this book in hand, managing shop floor execution effectively will become easier than ever. Authors Dipankar Saha and Mahalakshmi Symsunder, both SAP manufacturing solution experts, and Sumanta Chakraborty, product owner of SAP OEE, will explain execution and processing related concepts, manual and automatic data collection through the OEE Worker UI, and how to enhance and customize interfaces and dashboards for your specific purposes. You'll learn how to capture and categorize production and loss data and use it effectively for root-cause analysis. In addition, this book will show you: Various down-time handling scenarios. How to monitor, calculate, and define standard as well as industry-specific KPIs. How to carry out standard operational analytics for continuous improvement on the shop floor, at local plant level using MII and SAP Lumira, and also global consolidated analytics at corporation level using SAP HANA. Steps to benchmark manufacturing performance to compare similar manufacturing plants' performance, leading to a more efficient and effective shop floor. Manufacturing Performance Management using SAP OEE will provide you with in-depth coverage of SAP OEE and how to effectively leverage its features. This will allow you to efficiently manage the manufacturing process and to enhance the shop floor's overall performance, making you the sought-after SAP OEE expert in the organization. What You Will Learn Configure your ERP OEE add-on to build your plant and global hierarchy and relevant master data and KPIs Use the SAP OEE standard integration (SAP OEEINT) to integrate your ECC and OEE system to establish bi-directional integration between the enterprise and the shop floor Enable your shop floor operator on the OEE Worker UI to handle shop floor production execution Use SAP OEE as a tool for measuring manufacturing performance Enhance and customize SAP OEE to suit your specific requirements Create local plant-based reporting using SAP Lumira and MII Use standard SAP OEE HANA analytics Who This Book Is For SAP MII, ME, and OEE consultants and users who will implement and use the solution.

Advances in Safety Management and Human Factors - Pedro M. Arezes 2019-06-05
This book discusses the latest findings on ensuring employees' safety, health, and welfare at work. It combines a range of disciplines - e.g. work physiology, health informatics, safety engineering, workplace design, injury prevention, and occupational psychology - and presents new strategies for safety management, including accident prevention methods such as performance testing and participatory ergonomics. The book, which is based on the AHFE 2019 International Conference on Safety Management and Human Factors, held on July 24-28, 2019, Washington D.C., USA, provides readers, including decision makers, professional ergonomists and program managers in government and public authorities, with a timely snapshot of the state of the art in the field of safety, health, and welfare management. It also addresses agencies such as the Occupational Safety and Health Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH), as well as other professionals dealing with occupational

safety and health.

Performance Measurement for World Class Manufacturing - Brian H. Maskell 1991-07-01

If your company is adopting world class manufacturing techniques, you'll need new methods of performance measurement to control production variables. In practical terms, this book describes the new methods of performance measurement and how they are used in a changing environment. For manufacturing managers, as well as cost accountants, it provides the theoretical foundation for these innovative methods and is supported by extensive practical examples.

TPM in Process Industries - Tokutaro Suzuki 2017-10-06

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.

TPM Development Program - Seiichi Nakajima 1989

Operations Management - Massimiliano Schiraldi 2013-03-13

Operations Management is an area of business concerned with managing the process that converts inputs into outputs, in the form of goods and/or services. Increasingly complex environments together with the recent economic swings and substantially squeezed industrial margins put extra pressure on companies, and decision makers are pushed to increase operations efficiency and effectiveness. This book presents the contributions of a selected group of researchers, reporting new ideas, original results and practical experiences as well as systematizing some fundamental topics in Operations Management. Although it represents only a small sample of the research activity on Operations Management, people from diverse backgrounds, academia, industry and research as well as engineering students can take advantage of this volume.

OEE for Operators - Productivity Press Development Team 1999-08-27

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM 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 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 productivity and recognize when its efficiency is being compromised. Features

Simple Excellence - Adam Zak 2011-06-28

Detailing the role of senior management in achieving a successful transformation to organizational excellence, Simple Excellence: Organizing and Aligning the Management Team in a Lean Transformation charts a course of simplification through the complexity often associated with managing performance improvement initiatives. It spells out the roles of key individuals on the management team—including those from sales and marketing, human resources, purchasing/supply chain, information technology, finance, and engineering. Maintaining a focus on the big picture, this book explains what value streams are and how to use them to structure your business so that all stakeholders are aligned with what matters most. It reduces constraint management to its most practical terms and lays out a sound approach to accounting that enables everyone to spend money where it adds value and stop spending where it doesn't. Drive your management team with dedicated allegiance to the concept of value enhancement Propel your organization to higher performance through the employment of Lean culture and decision-making principles Enact management structures needed to put new ways of thinking into play Focus on the bottom line with the right performance metrics Written by respected authorities

with extensive experience helping leading organizations achieve Lean transformation, the text includes case studies from high-profile organizations recognized for operational excellence. Addressing human resources management practices, it explains how to manage the day-to-day operations and pricing factory capabilities for the greatest possible profits. It also discusses the ongoing process of strategic planning to help you move away from annual goal setting, toward a dynamic process of engaging the entire company in the effort to provide your customers with an improved sense of value.

TPM Team Guide - Shirose Kunio 2017-08-15

TPM involves employees companywide in preventing equipment abnormalities and breakdowns. The first line of defense: equipment operators—the people most familiar with daily operating conditions. In addition to regular cleaning and inspection, team-based improvement activities make effective use of operators' hands-on knowledge. How do you organize TPM teams and keep them vital? TPM Team

Guidetells supervisors, workgroup leaders, and operators how to develop the team-based skills required for successful TPM implementation. Geared toward TPM projects, it describes basic elements of improvement activities for any kind of shopfloor team. TPM Team Guide gives simple explanations of basic TPM concepts such as the six big losses, and emphasizes the integration of TPM activities with production management. Chapters describe the team-based improvement process step by step, from goal to standardization of the improved operations. Team leaders will learn how to hold effective meetings and deal with the human issues that stand in the way of success. The tools for team problem solving and the steps for preparing a good presentation of results are detailed here as well. Written in simple language, with abundant illustrations and cartoon examples, this book makes TPM activities understandable to everyone in the company. Frontline supervisors, operators, facilitators, and trainers in manufacturing companies will want to use this practical guide to improve company performance and build a satisfying workplace for employees.