

## Overall Equipment Effectiveness

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 Durham. 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 Committees, 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.

Overall Equipment Effectiveness OEE Templates: Blank Sheets. Overall Equipment Efficiency (OEE) is the main measure in TPM tools from the Lean technique family. Includes time,

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quantity of products and efficiency. An effective, blank template for measuring the OEE indicator is ahead of you. From now on, you can always have it on hand and with your saved test history. Specification: Dimension: 8.5x11 Inches Interior: White Cover: Glossy Pages: 52 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).

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.

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

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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

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OEE HANA analytics Who This Book Is For SAP MII, ME, and OEE consultants and users who will implement and use the solution.

Transform and modernize your businesses and upgrade your enterprise management skills with Odoo 11, the most comprehensive management software Key Features Use project management along with analytics for better reporting Build an Odoo module and integrate it with other platforms with this practical guide Explore new design and mobile updates from the Odoo enterprise Book Description Odoo is an all-in-one management software that offers an array of business applications, forming a complete suite of enterprise management applications. Odoo 11 comes with advances on usability, speed, and design. Working with Odoo 11 starts with how to set up Odoo, both online and on your own server. You'll then configure the basic company settings required to quickly get your first Odoo system up and running. Later, you'll explore customer relationship management in Odoo and its importance in a modern business environment. You'll then dive into purchasing applications with Odoo, learn some of the primary functionalities of ERP systems for manufacturing operations, and use analytic accounting to provide better reporting. After that, you'll learn how to work with Odoo for mobile, and finally, you will walk through the recent Odoo 11 features with respect to the community and enterprise edition, giving you a complete understanding of what Odoo can do for your business. What you will learn Configure a functioning customer relationship management system Set up a purchasing and receiving system Implement manufacturing operations and processes using real-world examples Discover the capabilities of Odoo's financial accounting and reporting features Integrate powerful human resource applications Utilize Odoo's project management application to organize tasks Customize Odoo without

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writing a line of code Who this book is for This book is for beginners, and will help you learn advanced-level features with Odoo such as creating your own custom modules. You do not need any prior knowledge of Odoo.

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

Understanding, Measuring, and Improving Overall Equipment Effectiveness: How to Use OEE to Drive Significant Process Improvement explains why the Overall Equipment Effectiveness (OEE) measure was created and how it should be used. Based on 20 years of hands on experience applying OEE at over 150 sites, this step-by-step practical guide provides templates, assessments, a comprehensive loss-analysis framework to identify all possible variables that could affect OEE, and supporting spreadsheets to measure and improve OEE. It

outlines the different operational situations in which OEE can foster improvements, and the implications, before providing an easy-to-understand template for creating appropriate definitions for all the losses and a loss model. The author explains how to calculate OEE using examples to improve performance, and then shows, in detail, how to use an OEE Loss Analysis Spreadsheet to understand all losses, set an ideal vision, and then classify losses so improvement can be approached in the most sustaining way. Additive manufacturing is becoming a leading technology in the production of consumer parts. In order to compete with traditional methods which have had years to improve, additive systems must achieve a level of performance efficiency greater than it maintains today. While great effort is being expended to improve the printing time and add more systems level thinking to the problem, it is currently lacking a robust improvement methodology. To achieve the desired improvement, a technique from traditional manufacturing based on overall equipment effectiveness (OEE) is proposed. Overall additive manufacturing effectiveness (OAME) provides a methodology for enhancing this important emerging technology.

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.

This book represents a significant step towards improving the knowledge of, and communications between, members of the Maintenance and Reliability Profession. With more than 3000 entries, the compilation reflects a virtual explosion of commonly practiced concepts, ideas, methodologies and various approaches to maintenance and reliability improvements. An additional directory of maintenance and reliability acronyms is included. Maintenance and reliability involves many different people in many different roles. If we are expected to work efficiently, productively, and harmoniously on tasks and projects, there is need for a common language for communication. It is the goal of The Professional's Guide

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to Maintenance and Reliability Terminology to provide this basis. Robert Baldwin, Ramesh Gulati, and Jerry Kahn, have served the maintenance and reliability profession in many capacities for decades. Together, they have over 100 years of experience working in this field. All are Certified Maintenance and Reliability Professionals (CMRPs).

Are any systems performing erratically? Is there excess plant capacity? Does asset strategy development cover how to start and manage RCM? Are there any prerequisites required to execute a successful batch OEE solution? How do you use recommendations and decision support to decide what should be done next? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the



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people who rule the future. They are the person who asks the right questions to make Overall Equipment Effectiveness investments work better. This Overall Equipment Effectiveness All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Overall Equipment Effectiveness Self-Assessment. Featuring 954 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Overall Equipment Effectiveness improvements can be made. In using the questions you will be better able to: - diagnose Overall Equipment Effectiveness projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Overall Equipment Effectiveness and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Overall Equipment Effectiveness Scorecard, you will develop a clear picture of which Overall Equipment Effectiveness areas need attention. Your purchase includes access details to the Overall Equipment Effectiveness self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated

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specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Overall Equipment Effectiveness Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

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

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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)

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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

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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  
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

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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

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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.

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.

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 req

Overall Equipment Effectiveness A Powerful Production/maintenance Tool for Increased Profits Industrial Press Inc.

This book gathers a selection of the best papers presented at the joint international conference ICIEOM-CIO-IIE 2015, offering recent research on industrial engineering, management and operations from an international and interdisciplinary perspective. It includes contributions from different fields, such

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as operations research, modeling and simulation, production and service management and logistics, information systems and quality, and as such is of interest to both researchers and practitioners. Reflecting the interconnected nature of today's production systems, characterized by intense flows of goods, information and individuals between companies and nations, it is a valuable resource for anyone wanting an in-depth understanding of the field to guide managerial practice in order to take full advantage of existing opportunities. Single minutes exchange of dies -- Overall equipment effectiveness and cause effect diagram.

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

Using Overall Equipment Effectiveness for Manufacturing System Design.



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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

Overall equipment efficiency (OEE) is a total productive maintenance (TPM) module; machine capacity is a part of all three terms: availability, performance, and quality. Each term present numerous improvement opportunities.

How will variation in the actual durations of each activity be dealt with to ensure that the expected Overall Equipment Effectiveness OEE results are met? Who is the main stakeholder, with ultimate responsibility for driving Overall Equipment Effectiveness OEE forward? How do we go about Securing Overall Equipment

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Effectiveness OEE? How do we make it meaningful in connecting Overall Equipment Effectiveness OEE with what users do day-to-day? What business benefits will Overall Equipment Effectiveness OEE goals deliver if achieved? This valuable Overall Equipment Effectiveness OEE self-assessment will make you the credible Overall Equipment Effectiveness OEE domain assessor by revealing just what you need to know to be fluent and ready for any Overall Equipment Effectiveness OEE challenge. How do I reduce the effort in the Overall Equipment Effectiveness OEE work to be done to get problems solved? How can I ensure that plans of action include every Overall Equipment Effectiveness OEE task and that every Overall Equipment Effectiveness OEE outcome is in place? How will I save time investigating strategic and tactical options and ensuring Overall Equipment Effectiveness OEE costs are low? How can I deliver tailored Overall Equipment Effectiveness OEE advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Overall Equipment Effectiveness OEE essentials are covered, from every angle: the Overall Equipment Effectiveness OEE self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Overall Equipment Effectiveness OEE outcomes are achieved.

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Contains extensive criteria grounded in past and current successful projects and activities by experienced Overall Equipment Effectiveness OEE practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Overall Equipment Effectiveness OEE are maximized with professional results. Your purchase includes access details to the Overall Equipment Effectiveness OEE self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. **INCLUDES LIFETIME SELF ASSESSMENT UPDATES** Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

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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.

How do you audit that proposed activities increase the consequences of a malfunction of equipment important to safety previously evaluated in the safety analysis? Do you need to train people to write work orders? How do you determine Maintenance Tasks and Intervals: Can the failure be predicted or prevented? How good do staff perform the machine cleaning? How many shifts does the plant operate? This valuable Overall Equipment Effectiveness self-assessment will make you the dependable Overall Equipment Effectiveness domain master by revealing just what you need to know to be fluent and ready for any Overall Equipment Effectiveness challenge. How do I reduce the effort in the Overall Equipment Effectiveness work to be done to get problems solved? How can I ensure that plans of action include every Overall Equipment

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Effectiveness task and that every Overall Equipment Effectiveness outcome is in place? How will I save time investigating strategic and tactical options and ensuring Overall Equipment Effectiveness costs are low? How can I deliver tailored Overall Equipment Effectiveness advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Overall Equipment Effectiveness essentials are covered, from every angle: the Overall Equipment Effectiveness self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Overall Equipment Effectiveness outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Overall Equipment Effectiveness practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Overall Equipment Effectiveness are maximized with professional results. Your purchase includes access details to the Overall Equipment Effectiveness self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard -

