

Overall Equipment Effectiveness

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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 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

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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

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

this handbook provides an introduction to modern manufacturing techniques explaining their concepts and capabilities it covers employee empowerment total quality management quality systems iso 9000 and qs 9000 total preventative maintenance just in time manufacturing computer simulations process re engineering and project management

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

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this reference for consulting engineers provides the fundamental principles and skills required to operate their own practice it includes guidelines on newtworking for client growth getting free publicity bringing in partners extending a practice internationally and generating maximum profit

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