AUTONOMOUS MAINTENANCE IN SEVEN STEPS IMPLEMENTING TPM ON THE SHOP FLOOR

AUTONOMOUS MAINTENANCE IN SEVEN STEPS IMPLEMENTING TPM ON THE SHOP FLOOR AUTONOMOUS MAINTENANCE IN SEVEN STEPS IMPLEMENTING TPM ON THE SHOP FLOOR ARE YOU TIRED OF REACTIVE MAINTENANCE CRIPPLING YOUR PRODUCTION DO UNPLANNED DOWNTIME AND ESCALATING REPAIR COSTS KEEP YOU UP AT NIGHT YOURE NOT ALONE MANY MANUFACTURING FACILITIES STRUGGLE WITH INEFFICIENT MAINTENANCE PRACTICES LEADING TO LOST PRODUCTIVITY INCREASED EXPENSES AND FRUSTRATED EMPLOYEES BUT THERES A SOLUTION AUTONOMOUS MAINTENANCE AM A CORNERSTONE OF TOTAL PRODUCTIVE MAINTENANCE TPM THIS COMPREHENSIVE GUIDE WILL WALK YOU THROUGH SEVEN CRUCIAL STEPS TO SUCCESSFULLY IMPLEMENT AUTONOMOUS MAINTENANCE ON YOUR SHOP FLOOR TRANSFORMING YOUR MAINTENANCE STRATEGY FROM REACTIVE TO PROACTIVE AND EMPOWERING YOUR TEAM IN THE PROCESS THE PROBLEM THE HIGH COST OF REACTIVE MAINTENANCE REACTIVE MAINTENANCE THE TRADITIONAL FIXITWHENITBREAKS APPROACH IS A COSTLY AND INEFFICIENT STRATEGY IT LEADS TO UNSCHEDULED DOWNTIME PRODUCTION HALTS UNEXPECTEDLY DISRUPTING SCHEDULES AND IMPACTING CUSTOMER DELIVERIES INCREASED REPAIR COSTS REPAIRING EQUIPMENT AFTER MAIOR BREAKDOWNS IS SIGNIFICANTLY MORE EXPENSIVE THAN PREVENTATIVE MAINTENANCE REDUCED EQUIPMENT LIFESPAN NEGLECTING ROUTINE MAINTENANCE ACCELERATES WEAR AND TEAR SHORTENING THE LIFESPAN OF YOUR VALUABLE ASSETS SAFETY hazards Malfunctioning equipment poses significant safety risks to your workforce Low EMPLOYEE MORALE CONSTANTLY BATTLING BREAKDOWNS AND EMERGENCY REPAIRS IS DEMOTIVATING FOR YOUR MAINTENANCE TEAM THE SOLUTION AUTONOMOUS MAINTENANCE EMPOWERING YOUR TEAM FOR PROACTIVE SUCCESS AUTONOMOUS MAINTENANCE AM IS A PROACTIVE APPROACH WHERE OPERATORS TAKE OWNERSHIP OF THE ROUTINE MAINTENANCE OF THEIR OWN EQUIPMENT THIS

SHIFTS THE RESPONSIBILITY FROM A CENTRALIZED MAINTENANCE DEPARTMENT TO THE INDIVIDUALS WHO USE THE MACHINES DAILY THIS EMPOWERS EMPLOYEES FOSTERS A CULTURE OF OWNERSHIP AND SIGNIFICANTLY REDUCES DOWNTIME AND 2 REPAIR COSTS ITS A KEY PILLAR OF TOTAL PRODUCTIVE Maintenance TPM a holistic approach to maximizing equipment effectiveness Seven Steps TO IMPLEMENTING AUTONOMOUS MAINTENANCE STEP 1 ESTABLISH A STRONG FOUNDATION TRAINING AND EDUCATION BEFORE IMPLEMENTING AM THOROUGH TRAINING IS PARAMOUNT OPERATORS NEED TO UNDERSTAND THE BASICS OF THEIR EQUIPMENT INCLUDING ITS FUNCTION POTENTIAL FAILURE POINTS AND BASIC MAINTENANCE PROCEDURES THIS MIGHT INVOLVE BASIC MECHANICAL KNOWLEDGE Understanding lubrication cleaning and simple adjustments Equipmentspecific training Detailed knowledge of the particular machines they operate Safety procedures Ensuring OPERATORS CAN PERFORM MAINTENANCE TASKS SAFELY AND EFFECTIVELY RESEARCH BY THE SOCIETY OF MANUFACTURING ENGINEERS SME HIGHLIGHTS THAT EFFECTIVE TRAINING PROGRAMS SIGNIFICANTLY IMPROVE THE SUCCESS RATE OF AM IMPLEMENTATION STEP 2 INITIAL EQUIPMENT CLEANING AND INSPECTION THE FIRST STEP IS A THOROUGH CLEANING AND INSPECTION OF ALL EQUIPMENT THIS BASELINE ASSESSMENT IDENTIFIES EXISTING PROBLEMS AND ESTABLISHES A BENCHMARK FOR FUTURE maintenance Operators should Clean the equipment Remove dirt debris and other CONTAMINANTS THAT HINDER PERFORMANCE INSPECT FOR WEAR AND TEAR IDENTIFY ANY SIGNS OF DAMAGE OR POTENTIAL ISSUES DOCUMENT FINDINGS CREATE A DETAILED RECORD OF THE INITIAL CONDITION OF THE EQUIPMENT THIS STEP PROVIDES A CRUCIAL FOUNDATION FOR TRACKING PROGRESS AND IDENTIFYING RECURRING PROBLEMS STEP 3 DEVELOP STANDARDIZED CLEANING AND Inspection Procedures Based on the initial inspection develop clear standardized PROCEDURES FOR DAILY CLEANING AND INSPECTION THESE PROCEDURES SHOULD BE SIMPLE AND EASY TO FOLLOW USE CLEAR CONCISE LANGUAGE AND VISUALS SPECIFIC AND DETAILED OUTLINE EXACTLY WHAT NEEDS TO BE DONE AND HOW TO DO IT DOCUMENTED AND READILY ACCESSIBLE CREATE VISUAL AIDS CHECKLISTS PHOTOS AND MAKE THEM EASILY ACCESSIBLE TO ALL OPERATORS This standardization ensures consistency and reduces the risk of errors Step 4 Implement BASIC LUBRICATION PROCEDURES 3 PROPER LUBRICATION IS CRUCIAL FOR EQUIPMENT LONGEVITY

Train operators on proper lubrication techniques including Identifying lubrication points Knowing where and what type of lubricant to use Applying lubricant correctly Avoiding overlubrication or underlubrication Keeping accurate lubrication records Tracking Lubrication schedules and consumption Following proper Lubrication procedures SIGNIFICANTLY REDUCES FRICTION WEAR AND TEAR STEP 5 IMPLEMENT MINOR ADJUSTMENTS AND Repairs Empower operators to perform minor adjustments and repairs This requires IDENTIFYING TASKS WITHIN OPERATOR CAPABILITY FOCUS ON SIMPLE REPAIRS THAT DONT REQUIRE specialized tools or expertise Providing necessary tools and training Ensure operators HAVE THE RIGHT TOOLS AND KNOWLEDGE TO PERFORM THESE TASKS SAFELY DEVELOPING CLEAR PROCEDURES DOCUMENT THE STEPS FOR THESE MINOR REPAIRS THIS EMPOWERS OPERATORS AND REDUCES RELIANCE ON THE CENTRALIZED MAINTENANCE TEAM FOR MINOR ISSUES STEP 6 ESTABLISH A System for Continuous Improvement Regularly review and improve your AM program This INCLUDES MONITORING KEY PERFORMANCE INDICATORS KPIS TRACK DOWNTIME REPAIR COSTS AND EQUIPMENT EFFECTIVENESS GATHERING FEEDBACK FROM OPERATORS SOLICIT INPUT ON IMPROVING PROCEDURES AND IDENTIFYING FURTHER OPPORTUNITIES REGULARLY UPDATING PROCEDURES MAKE ADJUSTMENTS AS NEEDED BASED ON EXPERIENCE AND FEEDBACK CONTINUOUS IMPROVEMENT IS CRUCIAL FOR MAXIMIZING THE EFFECTIVENESS OF AM STEP 7 INTEGRATE AM INTO A BROADER TPM STRATEGY AM IS MOST EFFECTIVE WHEN INTEGRATED INTO A WIDER TPM STRATEGY THIS MIGHT INVOLVE PLANNED MAINTENANCE SCHEDULING PREVENTATIVE MAINTENANCE TASKS TO ADDRESS POTENTIAL ISSUES BEFORE THEY BECOME MAIOR PROBLEMS PREVENTIVE MAINTENANCE REGULAR inspections and servicing to prevent equipment failures Total productive maintenance A holistic approach that aims to maximize overall equipment effectiveness 4 Integrating AM INTO A WIDER TPM STRATEGY MAXIMIZES ITS IMPACT AND CONTRIBUTES TO OVERALL IMPROVEMENTS IN PRODUCTIVITY AND EFFICIENCY CONCLUSION IMPLEMENTING AUTONOMOUS MAINTENANCE REQUIRES A COMMITMENT TO TRAINING EMPOWERMENT AND CONTINUOUS IMPROVEMENT BY FOLLOWING THESE SEVEN STEPS YOUR MANUFACTURING FACILITY CAN TRANSITION FROM A REACTIVE TO A PROACTIVE MAINTENANCE STRATEGY REDUCING DOWNTIME LOWERING COSTS AND CREATING A MORE ENGAGED AND EMPOWERED WORKFORCE THE BENEFITS EXTEND BEYOND COST SAVINGS YOULL SEE IMPROVEMENTS IN SAFETY EMPLOYEE MORALE AND OVERALL EQUIPMENT EFFECTIVENESS FAQS 1 HOW LONG DOES IT TAKE TO IMPLEMENT AUTONOMOUS MAINTENANCE THE TIMEFRAME VARIES DEPENDING ON THE SIZE AND COMPLEXITY OF YOUR OPERATION BUT ITS A GRADUAL PROCESS THAT TYPICALLY TAKES SEVERAL MONTHS TO FULLY IMPLEMENT 2 WHAT ARE THE KEY PERFORMANCE INDICATORS KPIS FOR MEASURING AM SUCCESS KEY KPIS INCLUDE MEAN TIME BETWEEN FAILURES MTBF MEAN TIME TO REPAIR MTTR OVERALL EQUIPMENT EFFECTIVENESS OEE AND REDUCTION IN MAINTENANCE COSTS 3 WHAT IF MY OPERATORS LACK THE TECHNICAL skills for AM Provide thorough training and support Start with simple tasks and GRADUALLY INCREASE COMPLEXITY AS OPERATORS GAIN CONFIDENCE AND SKILLS 4 HOW CAN I ENSURE OPERATOR BUYIN FOR AUTONOMOUS MAINTENANCE COMMUNICATE THE BENEFITS CLEARLY INVOLVE OPERATORS IN THE PROCESS PROVIDE ADEQUATE TRAINING AND RESOURCES AND RECOGNIZE AND REWARD THEIR CONTRIBUTIONS 5 WHAT ARE THE POTENTIAL CHALLENGES OF IMPLEMENTING AM CHALLENGES CAN INCLUDE RESISTANCE TO CHANGE INADEQUATE TRAINING INSUFFICIENT RESOURCES AND LACK OF MANAGEMENT SUPPORT ADDRESSING THESE CHALLENGES PROACTIVELY IS CRUCIAL FOR SUCCESSFUL IMPLEMENTATION

AUTONOMOUS MAINTENANCE IN SEVEN STEPSIMPLEMENTING TPMFACTORS AFFECTING THE IMPLEMENTATION OF A TOTAL PRODUCTIVE MAINTENANCE SYSTEM (TPM)TPM IMPLEMENTATION, A JAPANESE APPROACHLEAN THINKING IN INDUSTRY 4.0 AND SERVICES FOR SOCIETYAUTONOMOUS MAINTENANCE VIDEO PARTICIPANTS GUIDEAUTONOMOUS MAINTENANCE IN SEVEN STEPSHANDBOOK OF MAINTENANCE MANAGEMENT AND ENGINEERINGLEAN MANUFACTURING IN LATIN AMERICALEAN AND AGILE MANUFACTURINGRECENT TRENDS IN MECHANICAL ENGINEERINGIMPLEMENTING WORLD CLASS MANUFACTURINGSUSTAINABLE DEVELOPMENT RESEARCH IN GREEN INFRASTRUCTURE, WATER RESOURCES, MANUFACTURING, AND PROCESS ENGINEERINGTOTAL PRODUCTIVE MAINTENANCESIXTH NCB INTERNATIONAL SEMINAR ON CEMENT AND BUILDING MATERIALS, NEW DELHI 24-27 NOVEMBER 1998PRODUCTIVITY IMPROVEMENTS THROUGH TPMMAINTENANCE ENGINEERING HANDBOOK, EIGHTH

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ALCARAZ DEVADASAN, S. R. C. S. RAMESH LARRY RUBRICH METADEL KASSAHUN ABERA TINA
AGUSTIADY ROY K. DAVIS KEITH MOBLEY KEITH MOBLEY

AUTONOMOUS MAINTENANCE IN SEVEN STEPS IMPLEMENTING TPM FACTORS AFFECTING THE

IMPLEMENTATION OF A TOTAL PRODUCTIVE MAINTENANCE SYSTEM (TPM) TPM IMPLEMENTATION, A

JAPANESE APPROACH LEAN THINKING IN INDUSTRY 4.0 AND SERVICES FOR SOCIETY AUTONOMOUS

MAINTENANCE VIDEO PARTICIPANTS GUIDE AUTONOMOUS MAINTENANCE IN SEVEN STEPS HANDBOOK

OF MAINTENANCE MANAGEMENT AND ENGINEERING LEAN MANUFACTURING IN LATIN AMERICA LEAN

AND AGILE MANUFACTURING RECENT TRENDS IN MECHANICAL ENGINEERING IMPLEMENTING WORLD

CLASS MANUFACTURING SUSTAINABLE DEVELOPMENT RESEARCH IN GREEN INFRASTRUCTURE, WATER

RESOURCES, MANUFACTURING, AND PROCESS ENGINEERING TOTAL PRODUCTIVE MAINTENANCE SIXTH

NCB INTERNATIONAL SEMINAR ON CEMENT AND BUILDING MATERIALS, NEW DELHI 24-27 NOVEMBER

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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

THIS BOOK PROVIDES AN UNDERSTANDING OF THE COMPLEXITY AND COMPREHENSIVENESS OF THE TOTAL PRODUCTIVE MAINTENANCE TPM PROCESS IT SUPPLEMENTS WORKS BY JAPANESE AUTHORS WITH GUIDANCE AND DETAIL ON HOW THE TPM PROCESS RELATES TO NORTH AMERICAN PLANTS OR FACILITIES

INHALTSANGABE ABSTRACT MODERN MANUFACTURING REQUIRES THAT ORGANISATIONS THAT WANT TO BE SUCCESSFUL AND TO ACHIEVE WORLD CLASS MANUFACTURING MUST POSSES BOTH EFFECTIVE AND EFFICIENT MAINTENANCE ONE APPROACH TO IMPROVE THE PERFORMANCE OF MAINTENANCE ACTIVITIES IS TO IMPLEMENT A TOTAL PRODUCTIVE MAINTENANCE TPM SYSTEM THE AIM OF THIS DISSERTATION IS TO PROVE THAT THE INTRODUCTION OF A TPM SYSTEM IS BY NO MEANS AN EASY TASK BECAUSE THERE ARE SEVERAL BARRIERS THAT ENCUMBER THE IMPLEMENTATION PROCESS THE DRIVING FORCES TO SUCCESS HAVE TO BE IDENTIFIED AND WELL UNDERSTOOD AND A PROCESS OF ORGANISATIONAL CHANGE HAS TO BE MANAGED SUCCESSFULLY THE STUDY ANALYSES IMPEDIMENTS BARRIERS AND OBSTACLES TO THE IMPLEMENTATION PROCEDURE AND DISCOVERS KEY SUCCESS FACTORS CONCLUDING

WITH A CONCEPTUAL FRAMEWORK FOR A SUCCESSFUL TPM IMPLEMENTATION THE DISSERTATION ALSO EXAMINES THE CHALLENGE OF MANAGING CHANGE WITHIN THE TPM CONTEXT AND IDENTIFIES THAT SUCH A TPM JOURNEY REQUIRES EMPLOYEE AND MANAGEMENT COMMITMENT TO BE SUCCESSFUL THROUGH A CASE STUDY OF IMPLEMENTING TPM IN AN AUTOMOTIVE SUPPLIER COMPANY THE PRACTICAL ASPECT WITHIN AND BEYOND BASIC TPM THEORY AND PROBLEMS ENCOUNTERED DURING THE IMPLEMENTATION ARE DISCUSSED AND ANALYSED THE PAPER CONCLUDES THAT THE IMPLEMENTATION OF TPM IS DEFINITELY NOT AN EASY TASK WHICH IS CONSIDERABLY BURDENED BY ORGANISATIONAL BEHAVIOURAL AND OTHER BARRIERS AND NECESSITATES THE DIFFICULT MISSION TO CHANGE PEOPLES MINDSETS FROM A TRADITIONAL MAINTENANCE APPROACH INHALTSVERZEICHNIS INHALTSVERZEICHNIS TITLE PAGEO 1 DECLARATION AND WORD COUNTO 2 ABSTRACTO 3 ACKNOWLEDGEMENTS 04 TABLE OF CONTENTS 05 LIST OF FIGURES 09 CHAPTER INTRODUCTION 10 1 IMPORTANCE OF TPM 10 1 2PROBLEM STATEMENT AND OBJECTIVES 11 1 3RESEARCH METHODS 12 1 4STRUCTURE OF THE STUDY 13 CHAPTER 2LITERATURE REVIEW 14 2 1DEFINING TPM 14 2 2BASIC CONCEPT 14 2 3PERFORMANCE MEASUREMENT 17 2 4NEW ROLES OF OPERATORS AND MAINTENANCE STAFF 19 2 5THE JIPM S 12 STEPS TO IMPLEMENT TPM21 2 6THE CONNECTION BETWEEN TPM AND TQM23 2 7TPM IN THE VIEW OF CHANGE25 CHAPTER 3METHODOLOGY29 3 1COMPANY PROFILE AND TPM BACKGROUND 29 3 1 1 GENERAL INFORMATION ABOUT THE COMPANY 29 3 1 2CME THE PLANT OF THE FOCUS OF THIS STUDY 30 3 2EXPLANATION JUSTIFICATION AND LIMITATIONS OF SELECTED METHODS 32 3 2 1 FOCUS GROUP DISCUSSION 32 3 2 1 1 DATA COLLECTION PROCEDURE 33 3 2 1 2DATA EVALUATION 34 3 2 2PARTICIPANT OBSERVATION 35 3 2 3DOCUMENT ANALYSIS 36 CHAPTER 4FINDINGS

REDUCE PLANT BREAKDOWNS TO ZERO AND INCREASE PRODUCTIVITY WITH THIS STEP BY STEP GUIDE TO IMPLEMENTING TPM INCLUDED ARE DISCUSSIONS OF TPM FOR COMPLETE ELIMINATION OF LOSSES THE OUTLINE OF TPM THE FIVE COUNTERMEASURES TO TPM BREAKDOWN AND THE SEVEN STEPS OF AUTONYMOUS MAINTENANCE INITIAL CLEANING COUNTERMEASURES TO SOURCE OF CONTAMINATION AND INACCESSIBLE AREA CLEANING AND LUBRICATING STANDARDS OVERALL INSPECTION AUTONOMOUS

INSPECTION PROCESS QUALITY ASSURANCE AND AUTONOMOUS MAINTENANCE IN MANUAL WORK WITH 118 ILLUSTRATIONS AND AN INDEX

EVIDENCE OF LEAN THINKING IMPLEMENTATION IS FOUND IN VARIOUS AREAS SUCH AS SERVICES HEALTHCARE AND DIFFERENT INDUSTRIES LIKE THE AUTOMOTIVE INDUSTRY AEROSPACE INDUSTRY TEXTILE INDUSTRY FOOD INDUSTRY AND OIL AND GAS INDUSTRY SUCH EVIDENCE POINTS TO THE UNIVERSALITY OF LEAN THINKING AND HOW ITS USE IN DIFFERENT CONTEXTS INCREASES ITS IMPORTANCE AS AN APPROACH TO CONTINUOUS IMPROVEMENT LEAN THINKING IN INDUSTRY 4 0 AND SERVICES FOR SOCIETY PRESENTS AN INSIGHT INTO LEAN THINKING AS A PHILOSOPHY THAT CAN IDENTIFY PROBLEMS AND WASTES IN VARIOUS AREAS ANALYZE THEM AND IDENTIFY ACTIVITIES THAT COULD IMPROVE PROCESSES COVERING KEY TOPICS SUCH AS INDUSTRIAL SYSTEMS LEAN SAFETY AND LEAN SUSTAINABILITY THIS REFERENCE WORK IS IDEAL FOR INDUSTRY PROFESSIONALS BUSINESS OWNERS MANAGERS POLICYMAKERS RESEARCHERS SCHOLARS ACADEMICIANS PRACTITIONERS INSTRUCTORS AND STUDENTS

THIS IS THE PARTICIPANT GUIDE TO SUPPORT TEAM LEADERS IN IMPLEMENTING AN AUTONOMOUS MAINTENANCE TEAM THIS IS USUALLY SOLD WITH AUTONOMOUS MAINTENANCE SHOPFLOOR TPM IMPLEMENTATION THIS IS FOR EXTRA COPIES

TO BE ABLE TO COMPETE SUCCESSFULLY BOTH AT NATIONAL AND INTERNATIONAL LEVELS PRODUCTION SYSTEMS AND EQUIPMENT MUST PERFORM AT LEVELS NOT EVEN THINKABLE A DECADE AGO REQUIREMENTS FOR INCREASED PRODUCT QUALITY REDUCED THROUGHPUT TIME AND ENHANCED OPERATING EFFECTIVENESS WITHIN A RAPIDLY CHANGING CUSTOMER DEMAND ENVIRONMENT CONTINUE TO DEMAND A HIGH MAINTENANCE PERFORMANCE IN SOME CASES MAINTENANCE IS REQUIRED TO INCREASE OPERATIONAL EFFECTIVENESS AND REVENUES AND CUSTOMER SATISFACTION WHILE REDUCING CAPITAL OPERATING AND SUPPORT COSTS THIS MAY BE THE LARGEST CHALLENGE FACING PRODUCTION ENTERPRISES THESE DAYS FOR THIS MAINTENANCE STRATEGY IS REQUIRED TO BE ALIGNED WITH THE PRODUCTION LOGISTICS AND ALSO TO KEEP UPDATED WITH THE CURRENT BEST PRACTICES

MAINTENANCE HAS BECOME A MULTIDISCIPLINARY ACTIVITY AND ONE MAY COME ACROSS SITUATIONS IN WHICH MAINTENANCE IS THE RESPONSIBILITY OF PEOPLE WHOSE TRAINING IS NOT ENGINEERING THIS HANDBOOK AIMS TO ASSIST AT DIFFERENT LEVELS OF UNDERSTANDING WHETHER THE MANAGER IS AN ENGINEER A PRODUCTION MANAGER AN EXPERIENCED MAINTENANCE PRACTITIONER OR A BEGINNER TOPICS SELECTED TO BE INCLUDED IN THIS HANDBOOK COVER A WIDE RANGE OF ISSUES IN THE AREA OF MAINTENANCE MANAGEMENT AND ENGINEERING TO CATER FOR ALL THOSE INTERESTED IN MAINTENANCE WHETHER PRACTITIONERS OR RESEARCHERS THIS HANDBOOK IS DIVIDED INTO 6 PARTS AND CONTAINS 26 CHAPTERS COVERING A WIDE RANGE OF TOPICS RELATED TO MAINTENANCE MANAGEMENT AND ENGINEERING

THIS BOOK REPORTS THEORETICAL AND PRACTICAL ASPECTS RELATED TO THE APPLICATION OF LEAN MANUFACTURING TOOLS IN COMPANIES ESTABLISHED IN LATIN AMERICA THE BOOK IS DIVIDED INTO SECTIONS ACCORDING TO THE TOOLS DISCUSSED THEREIN BASIC LM TOOLS VISUAL MANAGEMENT ANDON 55 AND STANDARDIZED WORK LM TOOLS APPLIED TO PRODUCTION PLANNING DEMAND MANAGEMENT HEIJUNKA TAKT TIME HOSHIN KANRI VALUE STREAM MAP LM TOOLS APPLIED TO QUALITY PLAN DO CHECK ACT CYCLE PDCA TOTAL QUALITY MANAGEMENT TQM KAIZEN GEMBA ROOT cause analysis getting it right the first time a3 problem solving 5 whys LM tools APPLIED TO MATERIAL FLOW ONE PIECE FLOW KANBAN JUST IN TIME BOTTLENECK ANALYSIS LM TOOLS APPLIED TO MACHINERY JIDOKA POKA YOKE OVERALL EQUIPMENT EFFECTIVENESS OEE TOTAL PRODUCTIVE MAINTENANCE TPM SINGLE MINUTE EXCHANGE OF DIE SMED LM TOOLS APPLIED TO PRODUCTION ORGANIZATION CELLULAR MANUFACTURING SIX BIG LOSSES INTELLIGENT GOALS KEY PERFORMANCE INDICATORS KPI LEAN AUDITS DECENTRALIZATION VERTICAL INFORMATION SYSTEMS LM APPLIED TO HUMAN FACTORS MULTIFUNCTIONAL TEAMWORK EMPOWERMENT INTEGRATION OF FUNCTIONS LEADERSHIP MOTIVATION LABOR SAFETY AND LM BENEFITS ECONOMIC SOCIAL AND ENVIRONMENTAL WE REPORT EACH TOOL S CONCEPTS CRUCIAL RESEARCH AND APPLICATIONS ALSO EACH APPROACH UNDERLINES THE AUTHORS THAT STAND OUT IN THAT TOPIC THE IMPLEMENTATION METHODOLOGY IN THE PRODUCTION SYSTEMS THE BENEFITS THEY OFFER AND FINALLY A CASE STUDY

CONTEMPORARY FASTIDIOUS COMPANIES ARE REQUIRED TO ELIMINATE WASTES AND OFFER VALUE ADDED PRODUCTS AND SERVICES TO THE CUSTOMERS WHICH REQUIREMENT IS FULFILLED BY ADOPTING THE PARADIGM CALLED LEAN MANUFACTURING ON THE OTHER SIDE FUTURISTIC COMPANIES SURGE TOWARDS REACHING THE TWENTY FIRST CENTURY MISSION BY REACTING QUICKLY IN ACCORDANCE WITH THE DYNAMIC DEMANDS OF THE MODERN CUSTOMERS FOR WHICH RESEARCHERS HAVE BEEN DEVELOPING A PARADIGM CALLED AGILE MANUFACTURING ALTHOUGH VARIOUS TECHNIQUES AND TOOLS ARE APPLIED COHESIVE PROCEDURES ARE YET TO BE EVOLVED TO IMPLEMENT THESE PARADIGMS SYSTEMATICALLY AND SUCCESSFULLY IN COMPANIES IN THIS CONTEXT THIS BOOK IS EVOLVED TO ADDRESS STUDENTS ACADEMICS PRACTITIONERS AND RESEARCHERS FOR GAINING THEORETICAL PRACTICAL AND RESEARCH FUTURISTIC KNOWLEDGE ON LEAN AND AGILE MANUFACTURING paradigms organised in 18 chapters the text opens with a historical overview of lean AND AGILE MANUFACTURING PARADIGMS IT THEN DISCUSSES THE LEAN MANUFACTURING PRINCIPLES WITH THEIR APPLICATION PROCEDURES THE BOOK COMPREHENSIVELY ANALYSES THE METHODS OF IMPLEMENTATION OF LEAN MANUFACTURING PARADIGM IN BOTH TRADITIONAL AND MODERATE ORGANISATIONS IT ALSO GIVES AN EQUAL TREATMENT TO THE IMPLEMENTATION OF AGILE MANUFACTURING PARADIGM UNDER FOUR DRIVERS SUCH AS MANAGEMENT DRIVER TECHNOLOGY DRIVER MANUFACTURING STRATEGY DRIVER AND COMPETITION DRIVER THROUGH THE ADOPTION OF APPROPRIATE AGILE MANUFACTURING CRITERIA THE BOOK CONCLUDES WITH A DISCUSSION OF LEAN AND AGILE MANUFACTURING PARADIGMS FROM THE PERSPECTIVES OF ACADEMIA RESEARCHERS AND PRACTITIONERS THE TEXT IS WELL SUPPORTED BY A LARGE NUMBER OF SELF TEST QUESTIONS WITH THEIR ANSWERS A UNIQUE FEATURE OF THE BOOK IS THE INCLUSION OF RESEARCH AVENUES AT THE END OF EACH CHAPTER WHICH ENABLE THE READERS TO CARRY OUT RESEARCHES ON THESE PARADIGMS THIS BOOK IS INTENDED FOR THE UNDERGRADUATE AND POSTGRADUATE STUDENTS OF INDUSTRIAL MANUFACTURING PRODUCTION AND MECHANICAL ENGINEERING

THIS BOOK PRESENTS THE SELECT PEER REVIEWED PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON FUTURISTIC TRENDS IN MECHANICAL ENGINEERING ICOFTIME 2020 THE CONTENTS FOCUS ON

LATEST RESEARCH IN DIFFERENT AREAS OF MECHANICAL ENGINEERING SUCH AS ADDITIVE MANUFACTURING VIBRATIONS ROBOTICS AND AUTOMATION NANO AND SMART MATERIALS GREEN ENERGY SUPPLY CHAIN MANAGEMENT AVIATION AND BIOMECHANICS THE BOOK ALSO INCLUDES NUMERICAL AND OPTIMIZATION METHODS RELEVANT FOR SEVERAL REAL LIFE MECHANICAL ENGINEERING PROBLEMS GIVEN ITS CONTENTS THIS BOOK WILL PROVE USEFUL FOR RESEARCHERS AND PROFESSIONALS ALIKE

THIS BOOK SHOWCASES THE LATEST RESEARCH AND DEVELOPMENTS IN SCIENCE ENGINEERING AND EMERGING GREEN TECHNOLOGIES THAT IMPACT SUSTAINABLE DEVELOPMENT IN MANUFACTURING AND INDUSTRIAL PROCESSING ENGINEERING PARTICULARLY IN DEVELOPING COUNTRIES IT COVERS A WIDE RANGE OF TOPICS INCLUDING MACHINERY FAULT DIAGNOSIS BIOMECHANICS FOOD PROCESSING AND PRESERVATION ENGINEERING PROPERTIES FERMENTATION PRETREATMENT TECHNOLOGIES BIOPESTICIDES EXTRACTION TREATMENT OF WATER HYACINTH FLOOD VULNERABILITY SURFACE WATER QUALITY ASSESSMENT AND EMERGING TECHNOLOGIES RELATED TO MANUFACTURING PROCESS SUSTAINABLE INFRASTRUCTURE AND WATER RESOURCE ENGINEERING IT IS AIMED AT RESEARCHERS ENGINEERS INDUSTRY PROFESSIONALS GRADUATE STUDENTS AND PRACTITIONERS LOOKING FOR CUTTING EDGE

THIS NEW EDITION EMPHASIZES NEW TECHNIQUES AND STRATEGIES TO TOTAL PRODUCTIVE MAINTENANCE TPM THROUGH THE USE OF INNOVATION AND MANAGEMENT AFTER THE PANDEMIC TO SHOW EFFECTIVE COMMUNICATION AND IMPLEMENTATION OF TPM TECHNIQUES TOTAL PRODUCTIVE MAINTENANCE STRATEGIES AND IMPLEMENTATION GUIDE SECOND EDITION PRESENTS STEP BY STEP APPROACHES TO TPM INTEGRATION WITH A CLEAR DIRECTION FROM PROJECT INFANCY TO COMPLETION IT DISCUSSES INNOVATION AND MANAGEMENT THROUGH THE USE OF TPM AND OFFERS EMPOWERMENT AND ENCOURAGEMENT TO ASSOCIATES SO THEY FEEL MORE COMFORTABLE USING TPM IN EVERYDAY SETTINGS THE BOOK IS COMPLETELY UPDATED SPECIFICALLY WITH NEW CASE STUDIES OF IMPLEMENTING TPM AFTER THE PANDEMIC CULTURAL CHANGE AND WHAT THAT ENTAILS THE BOOK

IS WRITTEN FOR MANUFACTURING ENGINEERS RELIABILITY ENGINEERS INDUSTRIAL ENGINEERS OPERATIONS

MANAGERS FACTORY MANAGERS PROJECT MANAGERS SUPPLY CHAIN MANAGERS LOGISTICS AND CAN

ALSO BE USED AS ADDITIONAL READING IN THE CLASSROOM

TOTAL PRODUCTIVE MAINTENANCE IS A JAPANESE ORIGINATED PHILOSOPHY AIMED AT MAXIMIZING THE EFFECTIVENESS OF MACHINERY AND EQUIPMENT ON THE SHOP FLOOR THIS BOOK PROVIDES A WAY OF LINKING MACHINERY PERFORMANCE DIRECTLY TO BUSINESS RATIOS AND SHOWS TPM CAN BE APPLIED TO INCREASE PRODUCTIVITY

THE MOST COMPLETE CURRENT GUIDE TO EVERY ASPECT OF MAINTENANCE ENGINEERING EXTENSIVELY UPDATED TO COVER THE LATEST TECHNOLOGIES AND METHODS MAINTENANCE ENGINEERING HANDBOOK EIGHTH EDITION OFFERS IN DEPTH DETAILS ON IDENTIFYING AND REPAIRING FAULTY EQUIPMENT THIS DEFINITIVE RESOURCE FOCUSES ON PROVEN BEST PRACTICES FOR MAINTENANCE REPAIR AND OVERHAUL MRO INVENTORY MANAGEMENT ROOT CAUSE ANALYSIS AND PERFORMANCE MANAGEMENT THIS THOROUGHLY REVISED EDITION CONTAINS NEW CHAPTERS ON RELIABILITY BASED MAINTENANCE PREVENTIVE MAINTENANCE SUSTAINING MAINTENANCE ULTRASONICS OPERATING DYNAMICS SIMPLIFIED FAILURE MODES AND EFFECTS ANALYSIS CRITICALITY ANALYSIS PROCESS AND VALUE STREAM MAPPING FEATURING CONTRIBUTIONS FROM NOTED EXPERTS IN THE FIELD THIS AUTHORITATIVE REFERENCE WILL HELP YOU TO SUCCESSFULLY REDUCE EXCESSIVE DOWNTIME AND HIGH MAINTENANCE COSTS BY DETECTING AND MITIGATING REPETITIVE FAILURES COMPREHENSIVE COVERAGE OF ORGANIZATION AND MANAGEMENT OF THE MAINTENANCE FUNCTION BEST PRACTICES FOR MAINTENANCE AND PREDICTIVE MAINTENANCE ENGINEERING AND ANALYSIS TOOLS MAINTENANCE OF MECHANICAL ELECTRICAL AND FACILITIES EQUIPMENT

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