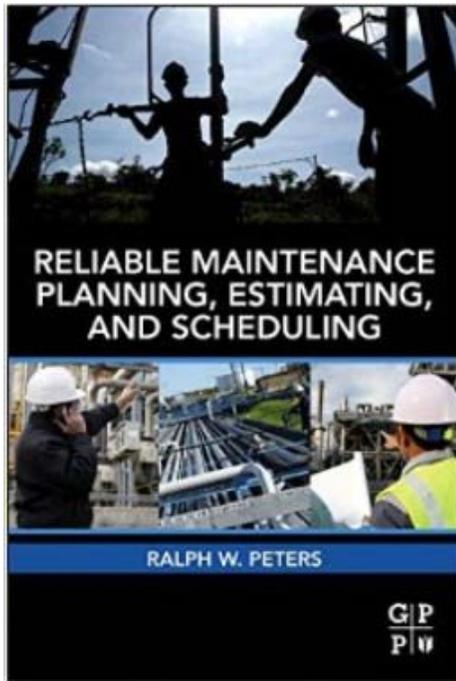




RELIABLE MAINTENANCE PLANNING, ESTIMATING AND SCHEDULING

BY RALPH W. 'PETE' PETERS



Put Reliability into Your Planning for Maintenance Excellence

Operations within the oil, gas and petro chemical sectors face the most operational challenges possible as related to health, safety, security and environmental issues (HSSE). Therefore planning, estimating and scheduling in these areas must achieve a very high level of accuracy, HSSE compliance and reliability. This book will definitely “put reliability into your planning for maintenance excellence.”

Written specifically for the oil and gas industry, *Reliable Maintenance Planning, Estimating, and Scheduling* provides the basic tools plus many new techniques to create a reliable planning and scheduling process. These tools will increase technician productivity and maximize physical asset uptime, all with measureable bottom line results.

The author has personally performed detailed maintenance assessments of over 300 operations. Roughly 80% of these operations still needed improvement in their planning and scheduling process. However all types of maintenance operations can now find out how to make their planning and scheduling process be more effective “*and reliable*”.

Therefore this book has universal application for all type operations because *if you can plan and schedule within the oil and gas sectors you can do it most anywhere!*

For today’s oil, gas and petrochemical operations it will cover the complete scope of planning, estimating and scheduling of work in critical continuous process operations. It will also include in detail the added focus and value that a planner/scheduler can have on reliability and Continuous Reliability Improvement (CRI). You will gain understanding on how effective and reliable maintenance planning, estimating and scheduling enables;

1. Craft labor productivity-Improved OCE (Overall Craft Effectiveness)
2. Physical asset productivity-Improved OEE (Overall Equipment Effectiveness)
3. Reliable and safe repair methods that are HSSE compliant
4. Reliable planned time for knowing your total maintenance requirements
5. Increased operations labor productivity
6. Validated direct savings, increased throughput and gained value that contributes directly to the bottom-line



Major Assessment Tool Included: If you are pursuing ISO 55000 certification, Appendix A will support you tremendously, allowing you to perform a comprehensive self-assessment. The Scoreboard for Maintenance Excellence-Version 2015 is a major base of knowledge including 38 best practice areas and 600 prescriptive evaluation items. It goes well beyond the often vague and descriptive terms from ISO 55000 to very prescriptive actions for best practices and with a valid means to track progress. This is an extraordinary additional resource to *Reliable Maintenance Planning, Estimating, and Scheduling* and is available in easy to use Excel format from The Maintenance Excellence Institute International at: www.pride-in-maintenance.com/benchmarking-tools

Chapter Summary:

-  1 Introduction-Putting Reliability into Your Planning for Maintenance Excellence
-  Chapter 1- Profit and Customer Centered Benefits of Planning and Scheduling
-  Chapter 2 Defining Results to Top Leaders and Maintenance Leaders
-  Chapter 3 Leadership-Creating Maintenance Leaders not Just Maintenance Managers
-  Chapter 4-How to Create PRIDE in Maintenance within Craft Leaders and the Technical Work Force
-  Chapter 5-Benchmarking with The Scoreboard for Maintenance Excellence-Going Beyond ISO 55000
-  Chapter 6- Why Planners Must Understand Productivity and How RMPES Enhances Total Operations Success
-  Chapter 7-What to Look for When Hiring a Reliable Planner-Scheduler
-  Chapter 8-Planner Review of the Maintenance Business System-Your CMMS-EAM System
-  Chapter 9- Defining Maintenance Strategies for Critical Equipment with RCM
-  Chapter 10 Defining Total Maintenance Requirements and Backlog
-  Chapter 11-Overview of a Reliable Planning-Estimating-Scheduling-Monitoring-Controlling Process
-  Chapter 12- Why the Work Order is a Prime Source for Reliable Reliability Info
-  Chapter 13- Detailed Planning with a Reliable Scope of Work and a Complete Job Package
-  Chapter 14- Understanding Risk Based Maintenance –RBM- by Using Risked-Based Planning with Risk Based Inspections-RBI
-  Chapter 15- Developing Improved Repair Methods plus Reliable Maintenance Planning Times with The ACE Team Process
-  Chapter 16-Successful Scheduling by Keeping the Promise and Completing the Schedule
-  Chapter 17- MRO Material Management--The Missing Link in Reliability
-  Chapter 18- How to Measure Total Operations Success with The Reliable Maintenance Excellence Index
-  Chapter 19- How This Book Can Apply to the Very Small Work Unit in Oil and Gas or to Any Type of Maintenance Operation.
-  Chapter 20-A Model for Success Developing Your Next Steps for Sustainable and Reliable Maintenance Planning



Appendices Summary:

-  Appendix A-The Scoreboard for Maintenance Excellence-Version 2015
-  Appendix B-Glossary of Maintenance-Stores Inventory and Oil-Gas Terms
-  Appendix C-Maintenance Planner-Scheduler or Maintenance Coordinator Position Job Evaluation Process Form
-  Appendix D- Charter-Format for a Leadership Driven-Self-Managed Team at GRIDCO Ghana
-  Appendix E- Case Study-Process Mapping for a Refinery-Work Initiation to Completed Work Reliability Improvement Analysis
-  Appendix F-The CMMS Benchmarking System
-  Appendix G-The ACE Team Benchmarking Process Team Charter Example and ACE Team Forms
-  Appendix H- Example Shop Load Plan-Master Schedule-Shop Schedule- Forms and How To Use
-  Appendix I -Management of Change (MOC) Precedues Example
-  Appendix J-Risk Management Plan Example
-  Appendix K-Measuring-the-True-Value-of-Maintenance-Activi...
-  Appendix L-An SAP Planner Training Checklist
-  Appendix M-Planner View Points- Should Planner Have Trades Background

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