

Total Productive Maintenance: Strategies and Implementation Guide (Systems Innovation Book Series)

By Tina Kanti Agustiady, Elizabeth A. Cudney

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A systematic approach to improving production and quality systems, total productive maintenance (TPM) involves all employees through a moderate investment in maintenance. Therefore, a successful TPM implementation requires support of all employees from C-level on down. **Total Productive Maintenance: Strategies and Implementation Guide** highlights the importance of effective communication on all levels to successful TPM implementation. It also discusses the role of the right set of tools from the right perspective—and demonstrates how to obtain a healthy balance of both.

Authors Tina Agustiady and Elizabeth Cudney recognized a need for better understanding of how to apply and integrate the TPM philosophy and its associated tools and techniques. In this book they build a framework of problem-solving methods and tools from the TPM toolkit that help you understand the problems, develop process improvements, and develop a plan to implement change. They also provide an overview and introduction to the TPM methodology, detailed information on TPM implementation, and in-depth case studies.

A major highlight of the book is the inclusion of case studies and applications of TPM that have shown significant improvement in meeting customer requirements and reducing downtime of processes. These in-depth descriptions demonstrate how to successfully apply TPM based on real-world projects from a wide variety of processes. They provide hands-on experience—an invaluable resource when instructing the use of methods and tools in training or in a

classroom. And, these case studies give you detailed step-by-step approaches to TPM integration with clear direction from project infancy to completion.

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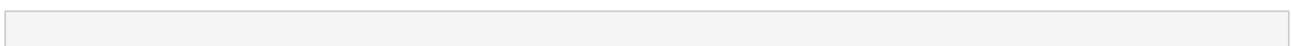
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Editorial Review

Review

"This book details not only the systematic approach to TPM but the fact that you must involve your most valuable asset - your employees - in successfully implementing a TPM process. I was impressed with the focus on communication, which is critical in all Lean initiatives along with the "real world" case studies in implementing TPM. I highly recommend this book!"

-Kris Vess, Director of Continuous Improvement, Masonite

"... a 'must buy' ... this book should find a place on the shelves of the many students, teachers and practitioners who are tasked with maintaining the ever increasing technological contexts of manufacturing and services."

?Brian Peacock, Professor, School of Science and Technology, SIM University, Singapore

"...provides detailed coverage of tools and techniques related to TPM for both novices and veterans in the field. This book provides a comprehensive roadmap and toolkit to aid readers in implementation of TPM and is written in a clear and concise way.

?Matthew Franchetti, The University of Toledo

About the Author

Tina Agustiady is a certified Six Sigma Master Black Belt and Continuous Improvement Leader. Tina is currently employed at Philips Healthcare. Agustiady received a BS in industrial and manufacturing systems engineering from Ohio University. She earned her Black Belt and Master Black Belt certifications at Clemson University.

Agustiady is also the Institute of Industrial Engineers (IIE) Lean Division President and served as a board director and chairman for the IIE annual conferences and Lean Six Sigma conferences. She is an editor for the International Journal of Six Sigma and Competitive Advantage.

Dr. Cudney is an Associate Professor in the Engineering Management and Systems Engineering Department at Missouri University of Science and Technology. Dr. Cudney received her B.S. in Industrial Engineering from North Carolina State University. She received her Master of Engineering in Mechanical Engineering with a Manufacturing Specialization and Master of Business Administration from the University of Hartford, and her doctorate in Engineering Management from the University of Missouri – Rolla. Her doctoral research focused on pattern recognition and developed a methodology for prediction in multivariate analysis. Dr. Cudney's research was recognized with the 2007 ASEM Outstanding Dissertation Award.

Prior to returning to school for her doctorate, she worked in the automotive industry in various roles including Six Sigma Black Belt, Quality/Process Engineer, Quality Auditor, Senior Manufacturing Engineer, and Manufacturing Manager. Dr. Cudney is an ASQ Certified Six Sigma Black Belt, Certified Quality Engineer, Manager of Quality/Operational Excellence, Certified Quality Inspector, Certified Quality

Improvement Associate, Certified Quality Technician, and Certified Quality Process Analyst.

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