



Lean Maintenance Repair and Overhaul (Mechanical Engineering)

By Mandyam Srinivasan, Melissa R. Bowers, Kenneth Gilbert

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BOOST PROFITS AND REDUCE COSTS BY EFFICIENTLY DELIVERING SUPERIOR MRO SERVICES

Lean Maintenance Repair and Overhaul describes how MRO organizations can achieve significant improvement in financial performance by applying the Theory of Constraints (TOC) to guide the implementation of Lean manufacturing tools. This Lean/TOC approach facilitates a growth strategy by providing customer value, such as faster turnaround times, that the competition cannot match. Lean/TOC creates the capacity for this growth by eliminating waste.

This practical guide shows how Lean/TOC also provides the improvement strategy for dealing with the variation that distinguishes MRO from high-volume, repetitive manufacturing. The methodology expands the improvement efforts beyond the manufacturing floor to make the organizational changes needed to facilitate growth and to empower the workforce to be enthusiastic participants in the improvement processes. You will learn how these concepts have been applied to MRO organizations in the commercial and defense sectors.

COMPREHENSIVE COVERAGE INCLUDES:

- The MRO business opportunity
- The goal of Lean and how Lean for MRO is different
- Achieving sustained growth in the MRO business
- Managing the MRO process
- Enabling flow in an MRO environment
- The Lean MRO toolkit
- Managing the back-shops
- Creating a visual culture for the implementation of Lean/TOC



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Editorial Review

About the Author

Mandyam (“Sriini”) Srinivasan, Ph.D., is the Pilot Corporation Chair of Excellence in Business at the University of Tennessee. He is the author of *Streamlined: 14 Principles for Building and Managing the Lean Supply Chain and Building Lean Supply Chains with the Theory of Constraints* and is co-author of *Supply Chain Management for Competitive Advantage and Global Supply Chains: Evaluating Regions on an EPIC Framework – Economy, Politics, Infrastructure, and Competence*. Dr. Srinivasan has many years of experience with leading automobile manufacturing organizations and has consulted with a large number of industries. He received the 2006 Edelman Award for radically streamlining the MRO process for the Air Force’s largest transport plane, the C-5. Dr. Srinivasan has won numerous awards at the University of Tennessee for outstanding teaching, for research and creative activity, and for leadership in executive education. He is on the faculty of the Aerospace and Defense Executive MBA Program and of the Lean MRO one-week executive course at the University of Tennessee.

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Kenneth Gilbert, Ph.D., is the Regal Entertainment Group Professor of Business and Department Head of Statistics, Operations, and Management Science at the University of Tennessee. He holds the University of Tennessee’s Allen Keally Award for Outstanding Teaching, the Chancellors Award for Vision and Leadership in Graduate Education, and the Richard Sanders Award for Leadership in Executive Education. Dr. Gilbert is past associate editor of *Naval Research Logistics* and has published in numerous academic journals. He is on the faculty of the Aerospace and Defense Executive MBA Program and of the Lean MRO one-week executive course at the University of Tennessee.

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