



# Planning and Control of Manufacturing Operations

By John Kenworthy



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Effective planning and control of manufacturing operations allows businesses to achieve maximum profitability by reducing uncertainty at all stages of the manufacturing process.

In this book, John Kenworthy offers an easy to follow overview of the principles and practice of manufacturing control, with the emphasis throughout on practical approaches and techniques rather than on theoretical discussion. The author demonstrates that many problems are common to different types of manufacturing enterprises and offers practical solutions which can lead to a dramatic increase in overall performance. Sales forecasting, distribution planning, capacity planning, scheduling, and continuous improvement policies are among the subject areas covered. Exercises at the end of each chapter help readers assimilate important points. This book will be an invaluable aid not only for industrial managers who are responsible for manufacturing planning and control, but also students, trainers and anyone wishing to increase their understanding of manufacturing control systems.

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## Planning and Control of Manufacturing Operations By John Kenworthy Bibliography

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### Editorial Review

#### From the Publisher

An accessible and hands-on guide to operations management, this book covers all of the skills and activities operations and manufacturing managers need to cope with the problems of distribution logistics and inventory control. Important to managers seeking professional certification or involved in training programs, this reference covers everything from Materials Requirements Planning (MRP) to master scheduling to implementing control systems and manufacturing technology.

#### From the Inside Flap

Effective planning and control of manufacturing operations enable businesses to achieve maximum profitability by reducing uncertainty at all stages of the manufacturing process. This unique, one-stop resource offers an easy-to-follow overview of the principles and practices of manufacturing control, emphasizing practical approaches to and techniques for operations issues rather than theoretical discussions. As the probes the growing manufacturing control dilemma, author John Kenworthy explores the roles and impacts of such factors as mass and batch production, the advent of computers, planning compromises, and the development of Manufacturing Resources Planning (MRP II). It turns out that many problems are common to different types of manufacturing enterprises, and Kenworthy offers a wealth of proven, practical solutions that can dramatically increase overall performance. There are strategic end-of-chapter exercises designed to help you assimilate important points, along with complete information on:

- Achieving control—including order points, periodic reviews, stock projections, target levels, Material Requirements Planning (MRP)
- Master scheduling—constructing a feasible operations schedule
- Manufacturing orders—covering the complete life cycle—requirements, receipts, nomenclature
- Bills of materials—controlling yields and shrinkages, phantom bills, option planning
- Sales forecasting—reducing lead time, maintaining accuracy, direct and indirect extrapolation, the Pareto principle
- Continuous improvement—Just In Time (JIT), reducing change-over times, movement/transport times, kanban control, purchasing

A thorough, accessible, and hands-on guide, this comprehensive reference is an invaluable aid not only for industrial managers responsible for planning and control, but also for students, trainers, and all those wishing to increase their understanding of manufacturing control systems.

#### From the Back Cover

#### Planning and Control of Manufacturing Operations

"In the best companies, Operations Management is now highly professional and it is recognized that simplification and effective planning and control are key contributors to achieving a competitive edge and profitable operation. Unfortunately, the majority of companies still lag a long way behind the best, but an encouraging feature is that most managers now recognize that they have a problem, even if they are not sure exactly what it is or how to solve it. Some of the author's objectives will be achieved if this book not only helps managers identify what needs to be done but also contributes to the generation of informed support and commitment to change from their colleagues."--John Kenworthy

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profitability by reducing uncertainty at all stages of the manufacturing process. This unique, one-stop resource offers an easy-to-follow overview of the principles and practices of manufacturing control, emphasizing practical approaches to and techniques for operations issues rather than theoretical discussions.

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