

TWELFTH EDITION

OPERATIONS MANAGEMENT

Sustainability and Supply Chain Management

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JAY HEIZER | BARRY RENDER | CHUCK MUNSON

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and energy into outputs in the form of goods and or services The relationship of operations management to senior management in commercial contexts can be compared to the relationship of line officers to highest level senior officers in military science The highest level officers shape the strategy and revise it over time while the line officers make tactical decisions in support of carrying out the strategy In business as in military affairs the boundaries between levels are not always distinct tactical information dynamically informs strategy and individual people often move between roles over time

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Fundamentals of operations management María Teresa Nogueras Lozano, Eva Ballesté-Morillas, 2024-06-10 We want to welcome you to both an exciting and tactical discipline operations management This manual on Fundamentals of operations management is an effective tool to understand one of the main functions of any organisation the creation of goods and services That is to understand what resources are needed to generate the goods and services of an organisation in a global and highly competitive environment while also incorporating new technologies In this manual along with the classic fundamentals of operations management we will look forward towards what is coming and how it will impact process improvement in companies The main goal of this book is to equip the reader with the fundamental concepts in operations management To do this it will present the main qualitative and quantitative models for managing operations both in public and private companies As the reader will see the chapters are structured with an easy to follow and

rigorous thematic thread that will make each and every step understandable All this book has been designed with a distance learning student or a self taught reader such as an entrepreneur in mind We aim to facilitate the learning of a discipline that for years has been considered complicated and specifically focused on certain professions and to highlight its relevance and future opportunities We strive for the reader to enjoy learning from this manual and to discover an exciting discipline with many career opportunities The book combines both theory and practical exercises with real life cases whose examples will allow the learner to understand the day to day and the myriad of challenges and opportunities faced by operations management The manual covers classic management topics such as process design inventories demand forecasting etc as well as newer concepts such as digitisation of the supply chain As for the way the content is conveyed we have opted for a simple language that facilitates understanding while also being rigorous and precise The methodology used is distance learning which means that this manual is mainly intended for self learning and consequently its structure is designed to promote the understanding of its contents To achieve this goal 1 The text is divided into eight chapters that present a logical and coherent sequence to understanding what operations management consists of Chapter I Operations in the Current Environment defines what operations are in a company teaching the reader about the evolution of this discipline in a global environment The chapter shows the importance of the company s competitiveness generators and explains key concepts such as the value chain the extended network and digitisation which are crucial in current production processes and serve as an introduction to other concepts that will be explained in further detail in the following chapters which are aimed to teaching how to achieve a right tactical decision making in operations management Chapter II Managing Operations addresses the main topics in the day to day of operations management in order to get the reader in the context of the type of decisions that must be made in matters related to the supply chain inventory management costs planning the necessary materials project management among others and understand the implications of such decisions in the proper functioning of the company After having defined what operations are Chapter I and the types of decisions that need to be made for a successful operation Chapter II Chapter III Tools to Support Decision Making in Operations aims to provide the necessary tools to support decision making in two main categories quantitative and qualitative techniques Quantitative techniques include decision trees linear programming transportation modelling queuing models learning curves simulations and sales forecasting On the other hand qualitative techniques include concepts such as judgment based on experience customer surveys and the Delphi method By understanding these techniques readers will be able to delve into key concepts in the following chapters in order to properly plan resources to respond to anticipated demand while avoiding cost overruns and waste and aligning with the company s production capacity Chapter IV Aggregate Planning addresses medium term production planning which typically spans between 6 and 18 months Its main objective is to meet demand which requires determining the production quantity inventory levels and the amount of work or labour force needed by the company whether in house or outsourced To achieve

this it is necessary to develop an Aggregate Production Plan which is essential for an efficient production As determining the inventory level is one of the key factors in Aggregate Planning this manual devotes two chapters to inventory management Chapter V Inventory Management Independent Demand and Chapter VI Inventory Management Dependant Demand In both chapters inventory management and being able to determine the optimal quantity of supplies that should be ordered are critical factors for the company s costs and productivity Therefore calculating the optimal order quantity is the central focus of both chapters The decision to divide inventory management into two chapters is mainly due to the methods used to determine the optimal order quantities which differ for materials with dependent and independent demand For the latter case classic or traditional methods Chapter V are not valid initial assumptions change and more complex systems such as MRP Material Requirements Planning studied in Chapter VI of this manual are required In addition inventory management has become a critical factor for a company s competitiveness in today s globalized world The emergence of philosophies or approaches that practically eliminate inventory such as the Just In Time JIT or Lean Manufacturing systems cannot be overlooked so they have their space in Chapter VI Chapter VII Operational Scheduling constitutes the final link in operations management Operational scheduling or short term planning translates medium to long term plans into short term decisions aimed at allocating human resources machines and materials in the workplace to plan the most optimal work sequence possible In short it translates the Master Production Schedule Chapter IV and MRP Chapter VI into work sequences and specific assignments of people materials and machines to the work centres Usually assignments are made on a weekly daily and even hourly basis The last chapter Chapter VIII Quality in the Age of Planned Obsolescence tackles the concept of quality from the perspective of operations management and how it has evolved towards process improvement theories while addressing the phenomenon of planned obsolescence waste generation and the ethical commitment of operations management to preserve the environment 2 Each chapter is structured as follows The title that identifies it A descriptive content section of its main sections The educational goals to be achieved after studying it Keywords An outline that orderly structures the content A summary that presents the most important contents and ideas of the chapter The text itself is complemented by graphics examples diagrams and practical situations that occur in our business reality and highlight the application of theoretical concepts Glossary of terms A series of self assessment questionnaires for every chapter that aims to evaluate the reader s degree of understanding of its contents in the online portion of the manual Recommended readings in the online portion of the manual to reinforce the contents learned through articles manuals or a combination of both that will allow the reader to establish their learning of all the key issues Some chapters are also reinforced with videos found on the Internet that contain practical application cases of the studied contents As can be seen this book concludes with an extensive bibliography made up of manuals related to Operations Management Finally it is our wish that the reader enjoys the manual and that it opens the doors to new and interesting opportunities for them Dr M Teresa Nogueras Lozano Dr Eva Ballest

Morillas *Operations Management* Jay H. Heizer, Jay Heizer, Barry Render, 2004 Now in its seventh edition this text provides a state of the art overview of operations management It includes a new chapter on capacity planning and a behind the scenes look at the integration of operation management at Hard Rock Cafe

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