

Marine Terminal Operator Competence And Training Guide

Leading Marines, first published in 1995 and updated in 2014, is the US Marines' main publication describing its leadership philosophy.

Policymakers have become increasingly concerned in recent years about the possibility of future maritime terrorist attacks. Though the historical occurrence of such attacks has been limited, recognition that maritime vessels and facilities may be particularly vulnerable to terrorism has galvanized concerns. In addition, some plausible maritime attacks could have very significant consequences, in the form of mass casualties, severe property damage, and attendant disruption of commerce. Understanding the nature of maritime terrorism risk requires an investigation of threats, vulnerabilities, and consequences associated with potential attacks, as grounded both by relevant historical data and by intelligence on the capabilities and intentions of known terrorist groups. These risks also provide the context for understanding government institutions that will respond to future attacks, and particularly so with regard to the US civil justice system. In principle, civil liability operates to redistribute the harms associated with legally redressable claims, so that related costs are borne by the parties responsible for having caused them. In connection with maritime terrorism, civil liability creates that prospect that independent commercial defendants will be held responsible for damages caused by terrorist attacks. This book explores risks and U.S. civil liability rules as they may apply in the context of these types of attacks.

This FM deals with Army terminal operations in a TO. It contains procedures and techniques to plan, use, and control Army water, motor, rail, and air terminal operations. It explains the transportation doctrine and organizational structures needed to deploy Army terminal operations in a TO. It covers roles, missions, and concepts of employment for terminal operation units. This manual is mainly for unit commanders, key personnel, higher HQ staffs, theater planners, and commanders of operational allied units. Terminals are key nodes in the total distribution system that support the commander's concept of operation at all levels of war and through the range of military operations. They provide loading, unloading, and handling of cargo and personnel between various transportation modes. When linked by modes of transport, they define the transportation structure for the operation. Force projection missions require early identification and establishment of terminals. A well-conceived plan assures that terminals can support the deployment, reception, and onward movement of the force and its sustainment. Crucial to the execution of the operation is the assignment of the right personnel, cargo, and material handling equipment at each terminal. ITV of material moving through the transportation system also provides the CINC with information pertaining to location and final destination of all cargo. The Army is required to function across a range of operation from peacetime through conflict to war (see FM 100-5). Terminal

operators must be able to operate in every TO. Terminals will be vulnerable to air and missile attacks, especially if US and allied forces have not established air superiority and sea control. They may also be subject to attacks by unconventional forces and to sabotage, terrorism, mining, espionage, and chemical or biological attacks. Whatever the level of the Army operation, terminals will remain a critical piece to ensure continuous movement of personnel and cargo. Canada's economic and social development has benefited immensely from centuries of marine shipping. Today, the industry supports economies from coast to coast to coast, shipping hundreds of millions of tonnes of cargo, ranging from fuels to food, to consumer goods lining store shelves. The shipping industry is important to the livelihood of Canadians, but has also faced increased public scrutiny in recent years. The risks associated with opening the Arctic to greater ship traffic, increasing marine shipments of oil from Canada's oil sands, and the growth in vessel size, especially of container ships, have all contributed to this discussion. Recognizing the need for consensus-building research in this area, the Clear Seas Centre for Responsible Marine Shipping asked the Council of Canadian Academies to convene an expert workshop to identify the risks associated with commercial marine shipping in major Canadian shipping regions. The final workshop report, *Commercial Marine Shipping Accidents: Understanding the Risks in Canada*, identifies the risks of commercial marine shipping accidents across Canada's regions and for different cargo types, while highlighting gaps in understanding and areas for further research. The workshop report brings together perspectives from academia, government, and industry and is informed by evidence from a survey of the marine shipping community and an extensive review of the existing literature. It can be used as a tool for policy-makers to help inform decisions related to managing the risks of commercial marine shipping accidents. Overall, this workshop report seeks to contribute to a national dialogue about acceptable levels of risk in commercial marine shipping.

Risk Management in Port Operations, Logistics and Supply Chain Security is the first book to address security, risk and reliability issues in maritime, port and supply chain settings. In particular this title tackles operational challenges that port, shipping, international logistics and supply chain operators face today in view of the new security regulations and the requirements of increased visibility across the supply chain.

Ports and cities are historically strongly linked, but the link between port and city growth has become weaker. This book examines how ports can regain their role as drivers of urban economic growth and how negative port impacts can be mitigated.

Increasing capacity at ports and goods movement in the supply chain in general, while also satisfying environmental, economic, political, labor union, and other constraints is, arguably, the greatest challenge of modern transportation. With space at a premium and costs through the roof, it is increasingly obvious that the traditional solutions are

This series contains the decisions of the Court in both the English and French texts.

Maritime Supply Chains breaks the maritime chain into components, consistently relating them to the overall integrated supply chain. The book not only analyzes and provides solutions to frequently encountered problems and key operational issues, it also applies cutting-edge scientific techniques on the maritime supply chain. Sections consider shipping, ports and terminals, hinterland and the issues that intersect different parts of the chain. Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain. Finally, the book offers solutions to the most pressing problems, thus providing a unique, well-balanced account.

With 80 percent of the world's commodities being transported by water, ports are the pillars of the global economy. Port Management and Operations offers readers the opportunity to enhance their strategic thinking and problem-solving skills, while developing market foresight. It examines global port management practices at the regulatory, commercial, technological, operational, financial, and sociopolitical levels. This powerful sourcebook describes how seaports are being affected by the changes occurring nationally, regionally, and globally. Evaluating the new regulatory framework, it pinpoints the industry's implementation readiness and identifies potential problem areas. The book classifies the spectrum of interrelated port management principles, strategies, and activities in a logical sequence and under four cornerstones—Port Strategy and Structure, Legal and Regulatory Framework, Input: Factors of Production, and Output and Economic Framework. Detailing best practices and the latest industry developments, the book highlights emerging challenges for port managers and identifies opportunities to develop forward-thinking strategies. It examines the effectiveness of current strategies, tactics, tools, and resources of numerous global ports and highlights the necessity of adopting a proactive stance in harmonizing the laws, regulations, and policies pertaining to the maritime, oil, and gas industries. The shipping industry has myriad complexities and this book provides maritime managers and professionals with the wide-ranging and up-to-date understanding required to thrive in today's highly competitive and evolving environment.

This book assesses the state of practice and use of ship-bridge simulators in the professional development and licensing of deck officers and marine pilots. It focuses on full-mission computer-based simulators and manned models. It analyzes their use in instruction, evaluation and licensing and gives information and practical guidance on the establishment of training and licensing program standards, and on simulator and simulation validation.

This comprehensive book covers all major aspects of the design and maintenance of port facilities, including port planning, design loads for today's larger vessel size, seismic design guidelines, and breakwater design. New material addresses environmental concerns, the latest developments on inter-modal hubs and transfer points, and the latest information on port security and procedures being implemented around the world.

The European zebra mussel in the Great Lakes, a toxic Japanese dinoflagellate transferred to Australia--such biologically and economically harmful stowaways have made it imperative to achieve better management of ballast water in ocean-going vessels. Stemming the Tide examines the introduction of nonindigenous species through ballast water discharge. Ballast is any solid or liquid that is taken aboard ship to achieve more controlled and safer operation. This expert volume Assesses current national and international approaches to the problem and makes recommendations for U.S. government agencies, the U.S. maritime industry, and the member states of the International Maritime Organization. Appraises technologies for controlling the transfer of organisms--biocides, filtration, heat treatment, and others --with a view toward developing the most promising methods for shipboard demonstration. Evaluates methods for monitoring the effectiveness of ballast water management in removing unwanted organisms. The book addresses the constraints inherent in ballast water management, notably

shipboard ballast treatment and monitoring. Also, the committee outlines efforts to set an acceptable level of risk for species introduction using the techniques of risk analysis. Stemming the Tide will be important to all stakeholders in the issue of unwanted species introduction through ballast discharge: policymakers, port authorities, shippers, ship operators, suppliers to the maritime industry, marine biologists, marine engineers, and environmentalists.

From the author of *Marine Sniper*--the classic true account of Sergeant Carlos Hathcock--comes a gripping and gritty novel about a sniper on the trail of al-Qaeda terrorist Abu Musab al-Zarqawi in post-9/11 Iraq... At age twenty, Marine Scout-Sniper Jack Valentine had his first kill in Iraq at the start of the Persian Gulf War. Now it's 2006, and he's back in Baghdad, obsessed with taking down al-Qaeda terrorist Abu Musab al-Zarqawi. Jack missed his first shot at Zarqawi, and it's haunted him ever since--even though the attack struck fear into the black hearts of the jihadists and earned him the name the Ghost of Anbar. Now leading his own special operations platoon, Jack is determined to hunt down and take out his target this time. But the jihadists are not his only enemies. The ruthless, amoral leader of a band of mercenaries is feeding al-Qaeda secret information--and also pursuing the love of Jack's life, FBI agent Liberty Cruz. Jack may soon find himself in the crosshairs if he doesn't eliminate his rival first...

This book provides a coherent and systematic view of the key concepts, principles, and techniques in maritime container transport and logistics chains including all the main segments: international maritime trade and logistics, freight logistics, container logistics, vessel logistics, port and terminal management, and sustainability issues in maritime transport. *Container Logistics and Maritime Transport* emphasizes analytical methods and current optimization models to tackle challenging issues in maritime transport and logistics. This book takes a holistic approach to cover all the main segments of the container shipping supply chains to achieve an efficient and effective logistics service system across the entire global transport chain. Sustainability issues such as social concern and carbon emissions from shipping and ports are also discussed. Each maritime transport segment is addressed using an approach from qualitative/descriptive analytics to quantitative/prescriptive analytics. Cutting-edge optimization models are presented and explained to tackle various strategic, tactical, and operational planning problems. The book will help readers better understand operations management in global maritime container transport chain. It will also provide practical principles and effective techniques and tools for researchers to push forward the frontiers of knowledge and for practitioners to implement decision support systems. It will be directly relevant to academic courses related to maritime transport, maritime logistics, transport management, international shipping, port management, container shipping, container logistics, shipping supply chain, and international logistics.

The Review of Maritime Transport is an UNCTAD flagship publication, published annually since 1968 with 2018 marking the 50 year anniversary. Around 80 per cent of the volume of international trade in goods is carried by sea, and the percentage is even higher for most developing countries. The Review of Maritime Transport provides an analysis of structural and cyclical changes affecting seaborne trade, ports and shipping, as well as an extensive collection of statistical information.

Port Development and Competition in East and Southern Africa analyzes the 15 main ports in East and Southern Africa (ESA) to assess whether their proposed capacity enhancements are justified by current and projected demand; whether the current port management approaches sufficiently address not only the maritime capacity needs but also other impediments to port efficiency; and what the expected hierarchy of ports in the region will be in the future. The analysis confirms the need to increase maritime capacity, as the overall container demand in the ports in scope is predicted to begin exceeding total current capacity by between 2025 and 2030, while gaps in terms of dry and

liquid bulk handling are expected even sooner. However, in the case of many of the ports, the issue of landside access—the ports' intermodal connectivity, the ease of international border crossing, and the port-city interface—is more important than the need to improve maritime access and capacity. The analysis finds that there is a need to improve the operating efficiency in all of the ESA ports, as they are currently less than half as productive as the most efficient ports in the matched data set of similar ports across the world, in terms of efficiency in container-handling operations. Similarly, there is a need to improve and formalize stakeholder engagement in many of the ports, to introduce modern management systems, and to strengthen the institutional framework to ensure the most efficient use of the infrastructure and to be able to attract private capital and specialist terminal operators. Finally, given the ports' geographic location and proximity to main shipping routes, available draft, and the ongoing port-and-hinterland development, the book concludes that Durban and Djibouti are the most likely to emerge as the regional hubs in ESA's future hub-and-spoke system.

Port Economics, Management and Policy provides a comprehensive analysis of the contemporary port industry, showing how ports are organized to serve the global economy and support regional and local development. Structured in nine sections, this textbook examines a wide range of seaport topics, covering maritime shipping and international trade, port terminals, port governance, port competition, port policy and much more. Key features of the book include its: - Multidisciplinary perspective, drawing on economics, geography, management science and engineering - Multisector analysis including containers, bulk, break-bulk and the cruise industry - Focus on the latest industry trends, such as supply chain management, automation, digitalization and sustainability Benefitting from the authors' extensive involvement in shaping the port sector across five continents, this text provides students and scholars with a valuable resource on ports and maritime transport systems. Practitioners and policymakers can also use this as an essential guide towards better port management and governance. This publication provides information for the effective and sustainable public sector reform of port services in developing countries based on examples of best practice around the world. It focuses on understanding the needs, challenges and risks for sector reform, and also considers the options and implications of increased private sector involvement. The toolkit contains eight booklets and a CD-ROM which cover a range of issues including: a port reform framework, alternative port management structures and ownership models, legal reform tools, financial implications, regulation, labour reform and related social issues.

Business and Economics of Port Management is a comprehensive but concise textbook and reference for insights into the workings of port industry from the business and economics perspectives. The book examines port management from various entities which include the government, port operator, shipping line, logistics companies and other port service providers. It provides in-depth discussions on strategic issues, challenges and disruptions that are faced by this industry. Given the uniqueness of each port and international nature of the port business, the book comes with useful case studies and lessons from different port regions around the world. Key lessons on challenges and issues faced by port managers, developers and regulators are highlighted and discussed using a combination of professional insights and publicly available information sources. The aim is to illustrate the decision-making process with the purpose of contributing to better outcomes for the industry, government and the public at large. Anyone who is approaching the subject matter will gain utmost understanding of how ports are critical in the global economy and societal well-being.

This indispensable handbook provides state-of-the-art information and common sense guidelines, covering the design, construction, modernization of port and harbor related marine structures. The design procedures and guidelines address the complex problems and illustrate factors that should be considered and included in appropriate design scenarios.

Warfighting should help the Marine Commander and troop prepare mentally, physically, both externally, and internally for combat action. It covers the distinct levels of war -- strategic, operational, and tactical, conduct of war, and types of warfare. Every Marine Corps officer should understand and apply the principles to understand the demands of war, theory of war, including the foundations, preparation and actively engagin within war. This guide provides authoritative guidance for the completion of this war task as a key method to instill successful outcomes and strategic battlefield dynamic development within the nature of the war environment. Related products: Legacy of Belleau Wood: 100 Years of Making Marines and Winning Battles, An Anthology can be found here: <https://bookstore.gpo.gov/products/legacy-belleau-wood-100-years-making-marines-and-winning-battles-anthology> How we Fight: Handbook for the Naval Warfighter is available here: <http://Marine Corps Doctrinal Publication 1, MCDP-1>, Warfighting, foundational document, keystone philosophy for the Marine Corps, Department of the Navy, Headquarters United States Marine Corps Marine Corps History print subscription can be found here: <https://bookstore.gpo.gov/products/marine-corps-history>

Maritime-Port Technology and Development contains the latest research results and innovations as presented at the 2014 International Maritime and Port Technology and Development Conference (Trondheim, Norway, 27- 29 October 2014). The volume is divided into a wide range of topics: Efficient and environmentally friendly energy use in ships and port
Written by a collection of eminent figures in the field, this new edition continues to look at the rational planning for port facilities requirements (berths, storage and cargo handling equipment), organisations, management and operations with relation to planning and design of ports and marine terminals.

Includes bibliographical references and indexes.

Port Management and Operations your essential guide to port management in the twenty-first century. • Provides the reader with a complete understanding of total port activity • Enables managers working in specific areas of ports to see where they fit into the port's operation and commercial practice as a whole • Offers an analysis of the many types of ports along with the common essential elements that enable them to function, including administration, management, economics and operations

This two volume book presents an in-depth analysis of many of the most important issues facing today's shipping and port sectors. Volume 1 of Dynamic Shipping and Port Development in the Globalized Economy focuses on the application of theory to practice in Maritime Logistics.

Over the past twenty years there has been considerable improvement and new information in the design of port and berth structures. This handbook reflects the latest progress and developments in navigation safety, port planning and site selection, layout of container, oil and gas terminals, cargo handling, berth design and construction, fender and mooring principles. It presents guidelines and recommendations for the main items and assumptions in the layout, desing and construction of modern port structures, and the forces and loadings acting on them. The book provides an evaluation of different designs and construction methods for port and berth structures, and recommendations given by the different international harbour standards and

recommendations. Practising harbour and port engineers and students will find the handbook an invaluable source of information. Is the U.S. marine terminal on the verge of becoming a bottleneck rather than a funnel for world general cargo commerce? This volume, prepared at the request of the U.S. Maritime Administration, appraises issues pertinent to the productivity of these marine terminals, addressing such topics as the state of the art of technology and engineering design in general cargo terminals; the comparison of technology and design with that of other countries; the interrelationship of port and terminal practices; and the implications of port and terminal costs, practices, engineering design, and use of technology.

Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. At the cutting edge in its assessment of the industry, *Maritime Logistics* covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, *Maritime Logistics* provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more. The book includes contributions from leading practitioners and academics in the field. The new edition includes a variety of new contributors, including: A. Michael Knemeyer, Associate Professor of Logistics, Fisher College of Business, The Ohio State University; John P. Saldanha, Assistant Professor of Logistics, Fisher College of Business, The Ohio State University; Prof. Dr. Michele Acciaro, Assistant Professor of Maritime Logistics, THE KLU, Hamburg; Prof. Dr. Joern Meissner, Professor of Supply Chain Management & Pricing Strategy, THE KLU, Hamburg.

Container Terminals (CT) operate as central nodes in worldwide hub-and-spoke networks and link ocean-going vessels with smaller feeder vessels as well as with inbound and outbound hinterland transportation systems using road, rail, or inland waterways. The volume of transcontinental container flows has gained appreciably over the last five decades -- throughput figures of CT reached new records, frequently with double-digit annual growth rates. Stimulated by throughput requirements and stronger competition between terminals settled in the same region or serving a similar hinterland, respectively, cost efficiency and throughput capabilities become more and more important. Nowadays, both terminal

capacity and costs have to be regarded as key indicators for CT competitiveness. In respect of this steady growth, this handbook focuses on planning activities being aimed at “order of magnitude improvements” in terminal performance and economic viability. On the one hand the book is intended to provide readership with technological and organizational CT basics for strategic planning. On the other hand this book offers methodical assistance for fundamental dimensioning of CT in terms of 'technique', 'organization' or 'man'. The former primarily considers comprehensive information about container handling technologies representing the state of the art for present terminal operations, while the latter refers to methodological support comprising in particular quantitative solutions and modeling techniques for strategic terminal decisions as well as straightforward design guidelines. The handbook includes an introductory contribution which gives an overview of strategic planning problems at CT and introduces the contributions of the volume with regard to their relationship in this field. Moreover, each paper contains a section or paragraph that describes the impact of findings investigated by the author(s) for problem-solving in long-term planning of CT (as an application domain). The handbook intends to provide solutions and insights that are valuable for both practitioners in industry who need effective planning approaches to overcome problems and weaknesses in terminal design/development and researchers who would like to inform themselves about the state of the art in methodology of strategic terminal planning or be inspired by new ideas. That is to say, the handbook is addressed to terminal planners in practice as well as to students of maritime courses of study and (application oriented) researchers in the maritime field.

Knowledge management has been widely applied to various industries as a good strategy to help improve firms' performance. As globalisation accelerates and international trade increases more and more, maritime transport operations have become one of the vital industries to receive large attention from international managers. This is because the managers have perceived that the maritime transport system is an integrated entity within the global logistics and supply chain, and it should be therefore managed in the most efficient and effective ways possible, as an organic body within a global logistics system. Taking this approach, this book examines how maritime transport operators – such as shipping companies, port terminal operators and freight forwarders – could successfully play a role within the global logistics flow wherein they are embedded by improving their logistic value, i.e. maritime logistics value. As per the objective, the current book suggests a knowledge management based solution. It attempts to systematically investigate what types of knowledge are needed in the maritime logistics industry, how maritime operators could effectively acquire the knowledge, and whether the acquired knowledge would help maritime operators enhance maritime logistics value. This book provides not only comprehensive understandings of knowledge management strategy, but also its practical application to the maritime logistics industry. This would therefore be a useful guidebook for the managers, academics,

and undergraduate / postgraduate students in the field of maritime transport and global logistics, to help them to gain comprehensive knowledge of the application of knowledge management strategy to the industry.

This rhyming children's book follows Casey the Container, a new shipping container, along her journey on her first day in port. Casey meets new friends, experiences the workings of the waterfront, and learns the important role containers play in our world.

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