



**Marine Engineering Diploma Program Textbook Listing**  
**(Term 1)**  
**(4-Year Program)**

**For all terms:**

**Required textbooks MUST be brought to class.**

**Recommended textbooks are an additional resource you may find helpful, but do not need to be purchased or brought to class.**

<b>MEOC 1200 – BASIC ENGINEERING SCIENCES</b>	<b>REQ./REC. Texts</b>
Engineering Science by W. Bolton ( <i>Also used in MEOC 1212</i> ) ( <i>Students may opt to purchase or use the library e-book – the e-book is the 7th ed., 2021</i> )	Required
<b>MEOC 1202 – ELECTRICAL TECHNOLOGY 1</b>	
Introduction to Electric Circuits (with free Lab Manual) by H.W. Jackson, D. Temple, & B. Kelly ( <i>Please note that the BCIT Bookstore only carries the Text &amp; Lab Manual as a package</i> ), and students may purchase the text elsewhere, at a lower cost, as the lab manual is not required)	Required
<b>MEOC 1203 – ENGINEERING KNOWLEDGE 1</b>	
Introduction to Marine Engineering by D.A. Taylor ( <i>Also used in MEOC 2203</i> ) ( <i>Students may opt to purchase or use the library e-book – the e-book is the 1996 ed.</i> )	Required
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, & T.D. Morton ( <i>Also used in MEOC 2203</i> )	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P. Russell, T. Morton, & L. Jackson ( <i>Also used in MEOC 2203</i> ) ( <i>Students may opt to purchase or use the library e-book – the e-book is the 2012 ed.</i> )	Required
Industrial Hydraulics Manual by Eaton Hydraulics	Required
<b>MEOC 1206 – INTRODUCTION TO LOGIC CIRCUITS</b>	
Digital Electronics: Principles and Applications by R.L. Tokheim	Required
<b>MEOC 1207 – MATHEMATICS</b>	
Volume 1: Mathematics for Marine Engineers (Reeds Marine Engineering and Technology) by K. Corner, L. Jackson, & W. Embleton	Required
<b>MEOC 1209 – SHIP CONSTRUCTION</b>	
Ship Construction by D.J. Eyres	Required

<b>MEOC 1211 – SKILLS TRAINING</b>	
Machine Tool Practices (Canadian Edition) by R.R. Kibbe ( <i>Available only in e-book</i> )	Required
Trades Common Core – Line G: Use Power Tools	Required
Trades Common Core – Line J: Oxyacetylene Cut and Weld	Required
<b>MEOC 1991 – CO-OPERATIVE TRAINING 1</b>	
On Board Training Record Book for Officers in Charge of an Engineering Watch (Engine Cadets)	Required
<b>MSSM 1600 – OIL AND CHEMICAL TANKER FAMILIARIZATION</b>	
<b><i>For this course, Engineers do NOT NEED TO PURCHASE any recommended texts. These are a helpful reference ONLY.</i></b>	
Tanker Operations: A Handbook for the Person-In-Charge (PIC) by Mark Huber and G.S. Marton	Recommended
Tanker Handbook for Deck Officers by C. Baptist ( <i>Out of print – Find on secondary market</i> )	Recommended
International Safety Guide for Oil Tankers and Terminals (ISGOTT) by the International Chamber of Shipping available from the <a href="#">Nautical Mind</a>	Recommended
Tanker Safety Guide (Chemicals) by the International Chamber of Shipping	Recommended
Petroleum Tankship Safety by R.C. Page ( <i>Out of print – Find on secondary market</i> )	Recommended
Chemical Tanker Notes by V. Kunichkin ( <i>Out of print – Find on secondary market</i> )	Recommended



**Marine Engineering Diploma Program Textbook Listing**  
**(Term 3)**  
**(4-Year Program)**

<b>MEOC 1212 – APPLIED MECHANICS 1</b>		<i>REQ./REC. Texts</i>
Volume 2: Applied Mechanics for Engineers (Reeds Marine Engineering and Technology) by W. Embleton & L. Jackson		Required
Mechanical Engineering Principles by J. Bird and C. Ross		Recommended
<b>MEOC 1213 – AUTOMATION AND CONTROLS 1</b>		
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk ( <i>Also used in MEOC 2213, 3213</i> )		Required
<b>MEOC 1214 – MAINTENANCE AND REPAIR OF DIESEL ENGINES</b>		
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P. Russell, T. Morton, & L. Jackson ( <i>Students may opt to purchase or use the library e-book – the e-book is the 2012 ed.</i> )		Recommended
<b>MEOC 1215 – NAVAL ARCHITECTURE 1</b>		
Volume 4: Naval Architecture for Marine Engineers (Reeds Marine Engineering and Technology) by E.A. Stokoe		Required
<b>MEOC 1216 – THERMODYNAMICS 1</b>		
Volume 3: Applied Thermodynamics for Marine Engineers (Reeds Marine Engineering and Technology) by W. Embleton & L. Jackson		Required
<b>MEOC 2202 – ELECTRICAL TECHNOLOGY 2</b>		
Introduction to Electric Circuits (with free Lab Manual) by H.W. Jackson, D. Temple, & B. Kelly ( <i>Please note that the BCIT Bookstore only carries the Text &amp; Lab Manual as a package, and students may purchase the text elsewhere, at a lower cost, as the lab manual is not required</i> )		Required

**MEOC 2203 – ENGINEERING KNOWLEDGE 2**

Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P. Russell, T. Morton, & L. Jackson ( <i>Students may opt to purchase or use the library e-book – the e-book is the 2012 ed.</i> )	Required
Introduction to Marine Engineering by D.A. Taylor ( <i>Students may opt to purchase or use the library e-book – the e-book is the 1996 ed.</i> )	Required
Volume 9: Steam Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by L. Jackson & T.D. Morton ( <i>Also used in MEOC 3203</i> )	Required
Marine Medium Speed Diesel Engines (Marine Engineering Practice) by D. Griffiths	Required



**Marine Engineering Diploma Program Textbook Listing**  
**(Term 5)**  
**(4-Year Program)**

<b>MEOC 1220 – REFRIGERATION AND AIR CONDITIONING 1</b>		<i>REQ./REC. Texts</i>
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, & T.D. Morton		Required
<b>MEOC 2209 – SHIP CONSTRUCTION 2</b>		
Ship Construction by D.J. Eyres		Required
<b>MEOC 2213 – AUTOMATION AND CONTROLS 2</b>		
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk		Required
<b>MEOC 2215 – NAVAL ARCHITECTURE 2</b>		
Volume 4: Naval Architecture for Marine Engineers (Reeds Marine Engineering and Technology) by E.A. Stokoe		Required
Ship Stability for Masters and Mates by Barrass/Derrett		Recommended
<b>MEOC 2216 – THERMODYNAMICS 2</b>		
Volume 3: Applied Thermodynamics for Marine Engineers (Reeds Marine Engineering and Technology) by W. Embleton & L. Jackson		Required
<b>MEOC 3202 – ELECTRICAL TECHNOLOGY 3</b>		
Introduction to Electric Circuits (with free Lab Manual) by H.W. Jackson, D. Temple, & B. Kelly ( <i>Please note that the BCIT Bookstore only carries the Text &amp; Lab Manual as a package), and students may purchase the text elsewhere, at a lower cost, as the lab manual is not required</i> )		Required
Alternating Current Fundamentals by S.L. Herman		Required
Practical Marine Electrical Knowledge by D.T. Hall		Recommended

<b>MEOC 3203 – ENGINEERING KNOWLEDGE 3</b>	
Marine Low Speed Diesel Engines by Dr. D. Griffiths	Required
Operation and Maintenance of Machinery in Motorships by N.E. Chell	Required
Volume 9: Steam Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by L. Jackson & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P. Russell, T. Morton, and L. Jackson ( <i>Students may opt to purchase or use the library e-book – the e-book is the 2012 ed.</i> )	Required
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, and T.D. Morton	Required
Pounder's Marine Diesel Engines and Gas Turbines by D. Woodyard ( <i>Also used in MEOC 4205</i> )	Required
Marine Boilers by G.T.H. Flanagan ( <i>Also used in MEOC 4205</i> )	Recommended
Feed Water Systems and Treatment (Marine Engineering Series) by G.T.H. Flanagan ( <i>Out of print – Find on secondary market</i> ) ( <i>Also used in MEOC 4205</i> )	Recommended
Steam Turbines and Gearing by G.J. Roy ( <i>Out of print – Find on secondary market</i> ) ( <i>Also used in MEOC 4205</i> )	Recommended



**Marine Engineering Diploma Program Textbook Listing**  
**(Term 7)**  
**(4-Year Program)**

<b>MEOC 1224 – DRY DOCKING AND CORROSION CONTROL</b>		<i>REQ./REC. Texts</i>
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, & T.D. Morton		Required
<b>MEOC 2212 – APPLIED MECHANICS 2</b>		
Volume 2: Applied Mechanics for Engineers (Reeds Marine Engineering and Technology) by W. Embleton & L. Jackson		Required
Applied Mechanics by J. Hannah & M.J. Hillier Young		Required
<b>MEOC 2220 – REFRIGERATION AND AIR CONDITIONING 2</b>		
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, & T.D. Morton		Required
<b>MEOC 3209 – SHIP CONSTRUCTION 3</b>		
Ship Construction by D.J. Eyres		Required
<b>MEOC 3213 – AUTOMATION AND CONTROLS 3</b>		
Digital Electronics: Principles and Applications by R.L. Tokheim		Required
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk		Required
<b>MEOC 3216 – THERMODYNAMICS 3</b>		
Volume 3: Applied Thermodynamics for Marine Engineers (Reeds Marine Engineering and Technology) by W. Embleton & L. Jackson		Required
<b>MEOC 3217 – NAVAL ARCHITECTURE 3</b>		
Volume 4: Naval Architecture for Marine Engineers (Reeds Marine Engineering and Technology) by E.A. Stokoe		Required
Volume 13: Ship Stability: Powering and Resistance (Reeds Marine Engineering and Technology) by C.J. Patterson & J.D. Ridley		Required
Ship Stability for Mates and Masters by M. Rhodes		Required
<b>MEOC 4204 – ELECTRICAL TECHNOLOGY 4</b>		
Alternating Current Fundamentals by S.L. Herman		Required
Practical Marine Electrical Knowledge by D.T. Hall		Recommended

<b>MEOC 4205 – ENGINEERING KNOWLEDGE 4</b>	
Marine Low Speed Diesel Engines by Dr. D. Griffiths	Required
Operation and Maintenance of Machinery in Motorships by N.E. Chell	Required
Volume 9: Steam Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by L. Jackson & T.D. Morton	Required
Pounder's Marine Diesel Engines and Gas Turbines by D. Woodyard <i>(Also used in MEOC 4205)</i>	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P. Russell, T. Morton, and L. Jackson <i>(Students may opt to purchase or use the library e-book – the e-book is the 2012 ed.)</i>	Recommended
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) by P.A. Russell, L. Jackson, and T.D. Morton	Recommended