



Marine Engineering Diploma Program Textbook Listing
(Term 1)
(3-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.

MEOC 1207 – MATHEMATICS	
Bird's Engineering Mathematics by J. Bird	Required
Volume 1: Mathematics for Engineers (Reeds Marine Engineering and Technology) by K. Corner, L. Jackson, & W. Embleton	Recommended
MEOC 1209 – SHIP CONSTRUCTION 1	
Ship Construction by D.J. Eyres <i>(Also used in MEOC 2209)</i>	Required
MEOC 1211 – SKILLS TRAINING	
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
MEOC 1302 – ELECTRICAL TECHNOLOGY 1	
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 & Lab Manual as a package), and students may purchase the text elsewhere, at a lower cost, as the lab manual is not required) (Also used in MEOC 2302, 3302)</i>	Required
MEOC 1303 – ENGINEERING KNOWLEDGE 1 GENERAL	
Volume 8: General Engineering Knowledge for Marine Engineers (Reed's Marine Engineering Series) by P.A. Russell, L. Jackson, & T.D. Morton <i>(Also used in MEOC 1304, 1320, 2303, 2304, 3303, 3304)</i>	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed's Marine Engineering Series) by P. Russell, T. Morton, & L. Jackson <i>(Also used in MEOC 1304, 1214, 2303, 2304, 3303, 3304) (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>(Also used in MEOC 1304, 2303, 2304) (Students may opt to purchase or use the library e-book – the e-book is the 1996 ed.)</i>	Required
Industrial Hydraulics Manual by Eaton Hydraulics <i>(Also used in MEOC1304, 2304)</i>	Required

MEOC 1304 – ENGINEERING KNOWLEDGE 1 MOTOR	
Volume 8: General Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by P.A. Russell, L. Jackson, & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) 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
Industrial Hydraulics Manual by Eaton Hydraulics	Required
MEOC 1992 – CO-OPERATIVE TRAINING 1	
On Board Training Record Book for Officers in Charge of an Engineering Watch (Engine Cadets)	Required



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

MEOC 1200 – BASIC ENGINEERING SCIENCES		<i>REQ./REC. Texts</i>
Engineering Science by W. Bolton <i>(Also used in MEOC 1212) (Students may opt to purchase or use the library e-book – the e-book is the 7th ed., 2021)</i>		Required
MEOC 1213 – AUTOMATION AND CONTROLS 1		
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk <i>(Also used in MEOC 2213)</i>		Required
MEOC 1214 – MAINTENANCE AND REPAIR OF DIESEL ENGINES		
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) 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
MEOC 1215 – NAVAL ARCHITECTURE 1		
Volume 4: Naval Architecture for Marine Engineers (Reed’s Marine Engineering Series) by E.A. Stokoe <i>(Also used in MEOC 2215)</i>		Required
MEOC 1216 – THERMODYNAMICS 1		
Volume 3: Applied Thermodynamics for Marine Engineers (Reed’s Marine Engineering Series) by W. Embleton & L. Jackson <i>(Also used in MEOC 2216)</i>		Required
MEOC 2302 – ELECTRICAL TECHNOLOGY 2		
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 & 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 2303 – ENGINEERING KNOWLEDGE 2 GENERAL	
Volume 8: General Engineering Knowledge for Marine Engineers (Reed's Marine Engineering Series) by P.A. Russell, L. Jackson, & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed's Marine Engineering Series) 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
Lamb's Questions and Answers on the Marine Diesel Engine by S.G. Christensen (<i>Also used in MEOC 2304</i>) (<i>Available on Amazon's Kindle edition</i>)	Recommended
Medium and High Speed Diesel Engines for Marine Use by S.H. Henshall (<i>Also used in MEOC 2304</i>) (<i>Out of print – Find on secondary market</i>)	Recommended
Pounder's Marine Diesel Engines and Gas Turbines by D. Woodyard (<i>Also used in MEOC 2304, 3303, 3304</i>)	Recommended
The Running and Maintenance of Marine Machinery by Dr. J. Cowley (<i>Also used in MEOC 2304</i>) (<i>Out of print – Find on secondary market</i>)	Recommended
Marine and Offshore Pumping and Piping Systems by J. Crawford (<i>Also used in MEOC 2304</i>) (<i>Out of print – Find on secondary market</i>)	Recommended
Marine Medium Speed Diesel Engines (Marine Engineering Practice) by D. Griffiths (<i>Also used in MEOC 2304</i>) (<i>Out of print – Find on secondary market</i>)	Recommended
Marine Low Speed Diesel Engines by Dr. D. Griffiths (<i>Also used in MEOC 2304, 3304</i>)	Recommended
Marine Auxiliary Machinery by H.D McGeorge (<i>Also used in MEOC 2304</i>)	Recommended
Fire Safety at Sea by Dr. J. Cowley (<i>Also used in MEOC 2304</i>) (<i>Out of print – Find on secondary market</i>)	Recommended

MEOC 2304 – ENGINEERING KNOWLEDGE 2 MOTOR	
Volume 8: General Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by P.A. Russell, L. Jackson, & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) 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
Industrial Hydraulics Manual by Eaton Hydraulics	Recommended
Lamb’s Questions and Answers on the Marine Diesel Engine by S.G. Christensen (<i>Available on Amazon’s Kindle edition</i>)	Recommended
Medium and High Speed Diesel Engines for Marine Use by S.H. Henshall (<i>Out of print – Find on secondary market</i>)	Recommended
Pounder’s Marine Diesel Engines and Gas Turbines by D. Woodyard	Recommended
The Running and Maintenance of Marine Machinery by Dr. J. Cowley (<i>Out of print – Find on secondary market</i>)	Recommended
Marine and Offshore Pumping and Piping Systems by J. Crawford (<i>Out of print – Find on secondary market</i>)	Recommended
Marine Medium Speed Diesel Engines (Marine Engineering Practice) by D. Griffiths (<i>Out of print – Find on secondary market</i>)	Recommended
Marine Low Speed Diesel Engines by Dr. D. Griffiths	Recommended
Marine Auxiliary Machinery by H.D McGeorge	Recommended
Fire Safety at Sea by Dr. J. Cowley (<i>Out of print – Find on secondary market</i>)	Recommended



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

MEOC 1212 – APPLIED MECHANICS 1		<i>REQ./REC. Texts</i>
Volume 2: Applied Mechanics for Engineers (Reed’s Marine Engineering Series) by W. Embleton & L. Jackson		Required
Engineering Science by W. Bolton (<i>Students may opt to purchase or use the library e-book – the e-book is the 7th ed., 2021</i>)		Required
MEOC 1320 – REFRIGERATION AND AIR CONDITIONING		
Volume 8: General Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by P.A. Russell, L. Jackson, and T.D. Morton		Required
MEOC 2209 – SHIP CONSTRUCTION 2		
Ship Construction by D.J. Eyres		Required
MEOC 2213 – AUTOMATION AND CONTROLS 2		
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk		Required
MEOC 2215 – NAVAL ARCHITECTURE 2		
Volume 4: Naval Architecture for Marine Engineers (Reed’s Marine Engineering Series) by E.A. Stokoe		Required
Ship Stability for Masters and Mates by Barrass/Derrett		Recommended
MEOC 2216 – THERMODYNAMICS 2		
Volume 3: Applied Thermodynamics for Marine Engineers (Reed’s Marine Engineering Series) by W. Embleton & L. Jackson		Required
MEOC 3302 – ELECTRICAL TECHNOLOGY 3		
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 & 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		Required

MEOC 3303 – ENGINEERING KNOWLEDGE 3 GENERAL – STEAM	
Volume 9: Steam Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by L. Jackson & T.D. Morton	Required
Marine Boilers by G.T.H. Flanagan	Required
Volume 8: General Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by P.A. Russell, L. Jackson, and T.D. Morton	Required
Pounder’s Marine Diesel Engines and Gas Turbines by D. Woodyard	Recommended
Feed Water Systems and Treatment (Marine Engineering Series) by G.T.H. Flanagan <i>(Out of print – Find on secondary market)</i>	Recommended
Steam Turbines and Gearing by G.J. Roy <i>(Out of print – Find on secondary market)</i>	Recommended
Operation and Maintenance of Machinery in Motorships by N.E. Chell <i>(Also used in MEOC 3304)</i>	Recommended
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) 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
MEOC 3304 – ENGINEERING KNOWLEDGE 3 MOTOR	
Volume 8: General Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) by P.A. Russell, L. Jackson, & T.D. Morton	Required
Volume 12: Motor Engineering Knowledge for Marine Engineers (Reed’s Marine Engineering Series) 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
Operation and Maintenance of Machinery in Motorships by N.E. Chell	Required
Marine Low Speed Diesel Engines by Dr. D. Griffiths	Required
Pounder’s Marine Diesel Engines and Gas Turbines by D. Woodyard	Recommended