



Marine Engineering Diploma Program Textbook Listing Term 1

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.

MEDI 1510 – STCW BASIC SAFETY	
Course manual: STCW Basic Safety	Required
MEDI 1810 – STCW PROFICIENCY IN SAFETY CRAFT	
Course manual: STCW Proficiency in Safety Craft	Required
MEOC 1207 – MATHEMATICS	
Bird's Engineering Mathematics by J. Bird	Required
Volume 1: Mathematics for Marine 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 1210 – TECHNICAL DRAWING	
Course manual: Read Drawings and Specifications	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</i>) (<i>Also used in MEOC 2302, 3302</i>)	Required
MEOC 1303 – ENGINEERING KNOWLEDGE 1 GENERAL	
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 1304, 1320, 2303, 2304, 3303, 3304</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 1304, 1214, 2303, 2304, 3303, 3304</i>) (<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>Also used in MEOC 1304, 2303, 2304</i>) (<i>Students may opt to purchase or use the library e-book – the e-book is the 1996 ed.</i>)	Required
MEOC 1304 – ENGINEERING KNOWLEDGE 1 MOTOR	
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
MEOC 1992 – CO-OPERATIVE TRAINING 1	
On Board Training Record Book for Officers in Charge of an Engineering Watch (Engine Cadets)	Required
MERS 1025 – INTRODUCTION TO SHIP'S MACHINERY SYSTEMS	
Course manual: Introduction to Ship's Machinery Systems	Required
MSEC 1010 – SHIP SECURITY OFFICER	
Course manual: Ship Security	Required



**Marine Engineering Diploma Program
Textbook Listing
Term 3**

MEOC 1200 – BASIC ENGINEERING SCIENCES	
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 1213 – AUTOMATION AND CONTROLS 1	
Marine Control Practice (Marine Engineering Series) by D.A. Taylor	Required
Volume 10: Instrumentation and Control Systems (Reeds Marine Engineering and Technology) by G. Boyd & L. Jackson	Required
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk (<i>Also used in MEOC 2213</i>)	Recommended
MEOC 1214 – MAINTENANCE AND REPAIR OF DIESEL ENGINES	
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
MEOC 1215 – NAVAL ARCHITECTURE 1	
Volume 4: Naval Architecture for Marine Engineers (Reeds Marine Engineering and Technology) by E.A. Stokoe (<i>Also used in MEOC 2215</i>)	Required
MEOC 1216 – THERMODYNAMICS 1	
Volume 3: Applied Thermodynamics for Marine Engineers (Reeds Marine Engineering and Technology) 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 (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	Required
Marine Medium Speed Diesel Engines (Marine Engineering Practice) by D. Griffiths (<i>Also used in MEOC 2304</i>)	Required
MEOC 2304 – ENGINEERING KNOWLEDGE 2 MOTOR	
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	Required
Marine Medium Speed Diesel Engines (Marine Engineering Practice) by D. Griffiths	Required
MERS 1050 – PROPULSION PLANT SIMULATOR	
Course manual: Propulsion Plant Simulator	Required



Marine Engineering Diploma Program Textbook Listing Term 5

MEOC 1212 – APPLIED MECHANICS 1	
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
MEOC 1320 – REFRIGERATION AND AIR CONDITIONING	
Volume 8: General Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology) 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 Control (Marine Engineering Series) by G.J. Roy	Required
Marine Control Practice (Marine Engineering Series) by D.A. Taylor	Required
Volume 10: Instrumentation and Control Systems (Reeds Marine Engineering and Technology) by G. Boyd & L. Jackson	Required
Instrumentation and Process Control by F.W. Kirk, T.A. Weedon, & P. Kirk	Recommended
MEOC 2215 – NAVAL ARCHITECTURE 2	
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
MEOC 2216 – THERMODYNAMICS 2	
Volume 3: Applied Thermodynamics for Marine Engineers (Reeds Marine Engineering and Technology) 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 (Reeds Marine Engineering and Technology) by L. Jackson & T.D. Morton	Required
Marine Boilers by G.T.H. Flanagan	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 M. Lata arche	Required
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 (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
MEOC 3304 – ENGINEERING KNOWLEDGE 3 MOTOR	
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
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 M. Lata arche	Required
MERS 1075 – Propulsion Plan Simulator Cadet Level 1	
Course manual: Propulsion Plant Simulator Cadet Level 1	Required