

Registration code – NAUT SM3

SHIP MANAGEMENT – LEVEL 3

Duration – 120 hours

Course description

This mid level course is designed to provide mariners with knowledge of: international maritime law, agreements, conventions; national legislation and regulations; shipmaster's business; master's responsibilities during times of pilotage, marine occurrences, salvage, noting and extending protest and entering ports of refuge.

Required for the following certificates of competencies:

- Master Mariner
- Master, Near Coastal
- Master 3000T, Near Coastal
- Master 3000T, Domestic
- Chief Mate
- Chief Mate, Near Coastal

Learning objectives/competencies

Subject	Knowledge required
Competence:	Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and the protection of the marine environment
Knowledge of international maritime law embodied in international agreements and conventions and National Legislation for Implementing International Agreements and Conventions	<p>Certificates and other documents Certificates and other documents required to be carried on board ships by International Conventions and their period of validity; Certificates and documents required to be carried on board domestic vessels and their periods of validity.</p> <p>SOLAS Responsibilities under the relevant requirements of the International Convention for the Safety of Life at Sea as modified from time to time.</p> <p>Marine Personnel and Watchkeeping Knowledge of the International Convention on Standards of Training, Certification and watchkeeping for Seafarers 1978 as amended (STCW Convention) and STCW Code; knowledge of Part 2 of the Marine Personnel Regulations relating to the crewing requirements for Canadian vessels, in particular the training and familiarization required, the minimum complement, the safe manning documents, the validity of certificates and endorsements, the deck watch, the engineering watch, the radio watch and the medical examination of seafarers.</p> <p>Pollution prevention Responsibilities under the International Convention for the Prevention of Pollution from Ships, 1973, the Protocol of 1978 relating thereto (MARPOL 73/78) and their Annexes as modified from time to time; The prevention of pollution by Oil (Annex I), by Noxious Liquid Substances in Bulk (Annex II), by Harmful substances carried by sea in packaged forms (Annex III), by Sewage from ships (Annex IV), by Garbage from ships (Annex V) and the prevention of Air pollution (Annex VI); the Canadian Prevention of Pollution from Ships and for Dangerous Chemicals Regulations; the Arctic Waters Pollution Prevention Act; the Arctic Shipping Pollution Prevention Regulations.</p>

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	<p>Control and Management of Ship's Ballast Knowledge of International Convention for the Control and Management of Ships Ballast Water and Sediments, 2004; Knowledge of the Ballast Water Control and Management Regulations.</p> <p>ILO Conventions General knowledge of International Labour Organization (ILO) conventions, in particular the Maritime labour Convention; Knowledge of Part 3, of the Marine Personnel Regulations relating to Maritime Labour Standards, in particular the requirements regarding age, seafarer recruitment and placement, conditions of employment, the hours of work and hours of rest, food and water, on board complaint procedures and log books.</p> <p>Management for the safe operation of ships Knowledge of SOLAS Chapter IX (Management for the safe operation of ships); the International Safety (ISM) Code and the Safety Management Regulations.</p> <p>Maritime Security Knowledge of SOLAS Chapter XI-2 (Special measures to enhance maritime security); the International Ship and Port Facility Security (ISPS) Code; and the Marine Transportation Security Act and Regulations.</p> <p>International Health Regulations Maritime declarations of Health and the requirements of the International Health Regulations (1969) as amended (IHR); Arrival documents and procedures; Knowledge of the <i>Quarantine Act</i>, including purpose and application of quarantine regulations to shipping; Part 2 of Cargo, Fumigation and Tackle Regulations on fumigation; need for and precautions for vessel fumigation; role of Agriculture Canada; De-Rat Certificate and De-Rat Exemption Certificate.</p> <p>Tonnage Knowledge of the International Convention on Tonnage Measurement of Ships, 1969; knowledge of the Canadian Vessel Registration and Tonnage Regulations; requirement of tonnage certificate for registering a vessel; requirement for Panama and Suez tonnage measurements.</p>

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	<p>Port State Control</p> <p>The aim of Port State Control; Awareness of the different Memorandum of Understanding (MOU) on Part State Control such as the Paris, Tokyo and other MOU; Appreciation of the scope of authority of Port State Control and recognition of the right of national administrations to inspect and detain vessels for infractions.</p>
Canadian Legislation and Regulations	<p>Canada Shipping Act (CSA)</p> <p>Knowledge of <i>Canada Shipping Act-2001</i> relating to Registrations, listing and recording; Personnel; Safety; Navigation Services; Incidents, accidents and casualties; Wreck; Pollution prevention and response – Department of fisheries and oceans; Pollution Prevention – Department of Transport; and Enforcement; Minister’s right to cancel or suspend certificate of competency; summary convictions and indictable offences.</p> <p>Canada Labour Code</p> <p>Knowledge of the application of the <i>Canada Labour Code</i> to shipping; knowledge of the Marine Occupational Safety and Health Regulations; the Workplace Hazardous Materials Information System (WHMIS).</p> <p>Canadian Regulations</p> <p>Knowledge of <i>Shipping Casualty Reporting Regulations; Shipping Inquiries Investigation Rules; Potable Water Regulations for Common Carriers; Vessel Certificates Regulations; Prevention of Pollution from Ships and for Dangerous Chemicals Regulations; Marine Transportation Security Act and Regulations; Load Line Regulations; Merchant Seamen’s Compensation Act.</i></p> <p>Legislation affecting vessel operation</p> <p>Knowledge of the <i>Shipping Casualty Reporting Regulations; Administrative Monetary Penalties Regulations; Potable Water Regulations for Common Carriers; Vessel Certificates Regulations; Navigable Waters Protection Act; Environmental Protection Act; ; Boat and Fire Drill and Means of Exit Regulations; Merchant Seamen Compensation Act.</i></p> <p>Vessel reporting systems and services</p> <p>Awareness of vessel traffic services and reporting system in eastern, western and arctic waters of Canada including ECAREG and NORDREG; master’s obligation to report; traffic schemes and IMO approval process; AMVER and</p>

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Ship's business	<p>MAREP reporting systems; limitations of vessel traffic services; limitations concerning use of inshore lane.</p> <p>Legislation Concerning Controlled Substances Knowledge of employee assistance program; employee rights and testing process; pre-employment testing; documentation of medical treatment and administration of controlled medication.</p> <p>Agents Functions of agents, including their appointment, authority and duties.</p> <p>Customs house and immigration Knowledge of customs house and immigration procedures and required documentation at arrival and departure, including: inward report; general declaration; non duty paid goods; short landed or overloaded merchandise; crew's effects declaration; crew list; passenger list; cargo declaration forms; outward report; producing certificates of competency; passports, visas and their use in foreign ports; Vessel Clearance Regulations; Convention on facilitation of International Maritime Traffic, 1965, as amended (FAL 1965); Quarantine Regulations.</p> <p>Charter Parties and Bills of Lading Knowledge of types of bills of lading, contents and their functions; functions of a mate's receipt, cargo manifest/shipper's receipts; implications of electronic documentation ; the master's right to insert marginal clauses; letters of indemnity; the master's authority to sign bills of lading; Charter Clause, New Jason Clause, and <i>Jones Act</i>. Knowledge of charter parties, including interpretation of various agreements; on-hire and offhire procedures; common-law warranties; cancelling date; notice of readiness; lay days, running days, Sundays, holidays and weather working days; demurrage and despatch; freight; deviation; disputes and claims as they relate to laytime and demurrage.</p>

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Ship's business	<p>Marine insurance Basic knowledge of the marine insurance contract and its relationship to the master's responsibility to owners and underwriters; policies in marine insurance; P & I clubs, their functions and responsibilities; financial responsibility certificates; limitation of liability; salvage agreements; pollution policies for tankers and non-tankers; function of classification societies; types of surveys; survey procedure related to vessel classification.</p> <p>Management of Vessel Knowledge of management of vessel including leadership, decision making, problem solving, communication, goal setting, systematic approach to vessel maintenance, vessel safety and environmental protection, management of personnel, cargo and vessel; maintenance regime for inspection, deployment, and testing of safety-related devices, machinery and equipment; maintenance logs; documentation and record keeping; Legal consequences of infractions of regulations; statutory seaworthiness.</p>
Knowledge of master's responsibilities in different events	<p>Pilotage Legal aspects of compulsory and non-compulsory pilotage; Knowledge of the Pilotage Act; Pilot's responsibility to master; Master relieving pilot; When a pilot shall not pilot; Pilotage exemption or waiver; transit through major canals such as Suez and Panama, including boarding arrangements.</p>

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Knowledge of master's responsibilities in different events	<p>Marine Occurrence Obligations and responsibilities in event of emergencies such as accident, incident, collision, fire, distress, search and rescue; the mandatory reporting of a marine/hazardous occurrence under the provisions of the Canadian Transportation Accident Investigation and Safety Board Act, the Canada Shipping Act, and the Canada Labour Code Part II; casualty investigation and reports.</p> <p>Ports of refuge Business aspects of putting into port with damaged ship or cargo; justifiable deviation; general average; note of protest; right to extend; differences between general and particular average; survey of cargo; certificate of seaworthiness; survey procedure and associated documentation; underwriters; tender clause; conduct of vessel under foreign jurisdiction; procurement of legal advice; process and procedure, including incident investigation and analysis; technical report; damage report and repair specifications.</p> <p>Noting and Extending Protest Knowledge of the master's obligations, and circumstances when it is advisable to note and extent protest.</p> <p>Salvage Knowledge of master's responsibilities in the event of salvage and salvage agreements; International Convention on Salvage, 1989 (The London Salvage Convention); Lloyd's Standard Form of Salvage Agreement (LOF, 1995); justifiable deviation; limitation of liability; salvage associations; implications of CP/BL before taking a vessel in tow.</p>

The following open-book resources will be allowed in the examination room:

- a) Arctic Waters Pollution Prevention Act;
- b) Arctic Shipping Pollution Prevention Regulations;
- c) Ballast Water Control and Management Regulations;
- d) Canada Labour Code;
- e) Canada Shipping Act-2001;
- f) Load Line Regulations;
- g) Marine Personnel Regulations;
- h) Marine Transportation Security Act;
- i) Marine Transportation Security Regulations;
- j) Merchant Seamen's Compensation Act;
- k) Pilotage Act;
- l) Potable Water Regulations for common carriers;
- m) Quarantine Regulations;
- n) Regulations for Prevention of Pollution from Ships and for Dangerous Chemicals;
- o) Security Act;
- p) Shipping Casualty Reporting Regulations;
- q) Shipping Inquiries Investigation Rules;
- r) Vessel Certificates Regulations