

Specifications of minimum standard of competence for: Marine Mechanic Class C

- a) Taking charge of the machinery of vessels with a propulsion power of less than 350 BHP (262 KW) operating in the Near Coastal Area
- b) Second in charge of vessels with propulsion power of less than 500 BHP (410 KW)
- c) Watch keeper of vessels with a propulsion power of less than 100 BHP (749 KW)

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competency	Criteria for evaluating competency
<p>Operating 2 stroke and 4 stroke Engines</p>	<ul style="list-style-type: none"> • Operating 2 stroke and 4 stroke internal combustion engines • Timing of fuel ignition or injection and care of the system • Care and operation of the lube oil and cooling water system • Steering gears and emergency steering • Fuel oil piping system and filters, fuel tank ventilation-tank gauging fuel pumps and injectors • Oil and grease lubrication • Care of batteries, series and parallel connections. Ventilation, storage gassing and fire or explosion risk • Danger of LP gas and liquid fuels • Precautions against fire and explosion. Methods of dealing with fires extinguishers, fire pumps, closing appliances and remote shut-offs • List of items for inspection o slipway • Free surface effect • Fuel consumption calculation. 	<p>Oral and Practical Examination.</p>	<p>Pass the requisite examination. (Oral and Practical)</p>

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	<p>Estimate of requirements for voyage in fuel, lubricating oil and water</p> <ul style="list-style-type: none"> • Basic, ship construction-Names of the main parts of a ship including stem, keel, transverse, rudder, post, deck, coaming, bulwark, forecastles, bulkhead, tank tops • Care and maintenance of electric motors, starter and brushes • Accident prevention and safe practice in the engine room and precautions to be taken before entering tanks and other confined spaces • Engine cooling systems-water cooled and air cooled • Basic knowledge of reversing gear box • Simple fault such as how to identify and clear the following blockages: Air lock in fuel system, dirty injectors, leaking or sticking valves, overheating, faulty ignition, faulty battery connection • General undertaking of wiring and electrical systems; 		
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	<p>The candidates may be asked to start an engine and go through pre and post start checks.</p> <p>The examiner may during oral/practical examination ask any relevant question as deemed necessary.</p>		
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Qualifying Service

- (i) 1 year as a qualified mechanic of which 6 months should be qualifying sea service in vessels with a propulsion power of more than 150 BHP (111kw);
 - (ii) 6 months qualifying sea service, while holding a Coxswain Certificate, in vessels with a propulsion power of more than 150BHP (111kw);
- OR
- (iii) Successful completion of Engineering studies at the Maritime School of the Polytechnic plus 6 muftis qualifying sea service in vessels with a propulsion power of more than 150BHP (111kw).

Compulsory Training and Qualifications:

- (a) (i) Pass the requisite examination. (Oral and Practical).
- (b) Minimum Age: 20 years
- (c) A medical certificate giving evidence of physical including eyesight and colour vision and medical fitness.