



Australian Government

Australian Maritime Safety Authority

AMSA Mandated Practical Assessment Marine Engine Driver Grade 3 NC

MAR20418 Certificate II in Maritime Operations (Marine Engine Driver Grade 3 Near Coastal)

Candidate surname:

Candidate first name:

Candidate signature: Date:

RTO name:

RTO number:

Vessel name(s):

Candidate assessment result summary

The candidate has completed all components of the relevant Maritime Training Package, including this practical assessment and has been deemed competent:

Assessor name and number:

Assessor signature: Date:

Assessor comments:

Candidate instructions:

1. Observe all legislative and workplace health and safety (WHS) / occupational health and safety (OHS) requirements and comply with vessel safety management system.
2. Observe all procedures as set out in the vessel's operating documents.
3. Complete the practical tasks below using vessel documentation as required.
4. While completing the practical tasks, answer all questions, as directed by the assessor.

Assessor requirements:

Assessors of the AMPA must be approved by AMSA in accordance with the Administrative arrangements for the approval of registered training organisations as final assessors (AMSA 132).

Vessel/assessment requirements:

The practical assessment must be carried out on board a commercial vessel with inboard diesel propulsion power of >75kW that is appropriate to the certificate of competency being assessed and which is fitted and equipped to a standard sufficient to allow the candidate to complete the practical assessment tasks.

Alternatively, the practical assessment may be carried out using an appropriate diesel engine (≥ 75 kW), propulsion plant, auxiliary systems and deck machinery ashore.

For the following units of competency the practical assessment must be carried out on board a commercial vessel with inboard diesel propulsion power of ≥ 150 kW that is appropriate to the certificate of competency being assessed and which is fitted and equipped to a standard sufficient to allow the candidate to complete the practical assessment tasks:

- MARC032 Complete engine room tasks
- MARC034 Maintain hull out of water
- MARC035 Operate and maintain extra low and low voltage electrical systems and equipment
- MARC036 Operate deck machinery
- MARC039 Operate marine internal combustion engines, and propulsion and auxiliary systems

Alternatively, the practical assessment for these units of competency may be carried out using an appropriate diesel engine (≥ 150 kW), propulsion plant, auxiliary systems and deck machinery ashore.

Assessor instructions:

Ensure the candidate's name, RTO details and vessel name(s) are recorded on the cover page of this AMPA prior to commencing the practical assessment.

Each practical assessment task has a code adjacent to it that specifies the conditions under which the performance and assessment of each task must be carried out. The table below contains an explanation of the meaning of each of these codes.

I	Task is to be completed by each candidate individually
G	Task may be completed as a group activity with individual assessment. The group must contain no more than 5 candidates.
V	Task must be completed on a vessel that meets the requirements above while operating in navigable waters
W	Task may be completed either in a workshop or on a vessel that meets the requirements specified above
P	Task must be completed in water (pool, or other safe water)
F	Task must be completed on a fire ground
S	Task may be completed on an approved simulator where realistic conditions are not feasible aboard a vessel (such as an absence of traffic or navigation marks)
O	Task may be completed by observation

Where no code is specified for a task this is at the discretion of the assessor.

The AMPA may be conducted throughout the training or after all training has been completed.

As each task is completed successfully the assessor must sign and date the AMPA in the appropriate column. Where a number of tasks are assessed by a single assessor on the same day these tasks may be bracketed together and signed of as a group.

Additional simulated exercises and oral questions may be used to provide further opportunity to clarify a point or for a candidate to demonstrate competence.

Once all tasks for a unit of competency have been completed successfully the assessor should complete the section below the tasks for that unit.

Once the practical tasks for all units of competency have been signed off the assessor who signs off the final unit should complete the Candidate assessment result summary on the cover page of this AMPA.

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
BSBWOR203 Work effectively with others			
• identify own responsibilities in relation to the team and the organisation's requirements	I		
• work effectively in a group	G		
Assessor name and number:	<input style="width: 100%; height: 25px;" type="text"/>		
Assessor signature:	<input style="width: 40%; height: 25px;" type="text"/>	Date:	<input style="width: 20%; height: 25px;" type="text"/> / <input style="width: 20%; height: 25px;" type="text"/> / <input style="width: 20%; height: 25px;" type="text"/>
Notes			
MARB028 Service marine internal combustion engines, and propulsion and auxiliary systems			
• apply work health and safety (WHS) / occupational health and safety (OHS) requirements and work practices	I		
• carry out servicing tasks, including: - checking propeller for damage - checking shaft alignment - cleaning strainers - lubricating - topping up oils and fluids	GW		
• carry out servicing tasks, including replacing: - anodes - drive belt - filters - gland packing - pumps - topping up oils and fluids	GW		
• implement safe and environmentally responsible work practices	IW		
• implement workplace environmental and waste management procedures correctly	GW		
• read and interpret manufacturer specifications and safety data sheets (SDS) / material safety data sheets (MSDS)	I		
Assessor name and number:	<input style="width: 100%; height: 25px;" type="text"/>		
Assessor signature:	<input style="width: 40%; height: 25px;" type="text"/>	Date:	<input style="width: 20%; height: 25px;" type="text"/> / <input style="width: 20%; height: 25px;" type="text"/> / <input style="width: 20%; height: 25px;" type="text"/>
Notes			

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARC033 Complete engine room tasks			
• apply work health and safety (WHS) / occupational health and safety (OHS) practices, including hazard identification, risk assessment and risk control options	I		
• carry out housekeeping tasks, including: - correct disposal of waste - pumping of bilges - removal or lashing of loose items	GV		
• complete all work to specifications	GV		
• keep running and maintenance logs	I		
• sequencing tasks in conjunction with others involved in or affected by work plan, according to procedures	I		
Assessor name and number:	<input style="width: 100%; height: 25px;" type="text"/>		
Assessor signature:	<input style="width: 40%; height: 25px;" type="text"/>	Date:	<input style="width: 15%; height: 25px;" type="text"/> / <input style="width: 15%; height: 25px;" type="text"/> / <input style="width: 15%; height: 25px;" type="text"/>
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Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARC034 Maintain hull out of water			
• apply work health and safety (WHS) / occupational health and safety (OHS) practices, including hazard identification, risk assessment and risk control options	I		
• carry out maintenance tasks, including: - examining anchors and cables - inspecting: • anodes • hull fittings • propeller, shafts and seals • rudder, rudder stock and seals • watertight and weathertight hatches	IW		
• plan and prepare for maintenance	I		
• read, interpret and comply with manufacturer instructions including all WHS/OHS requirements	I		
• read, interpret and comply with operating and service manuals for maintenance of vessel hull	I		
• read, interpret and comply with safety data sheets (SDS) / material safety data sheets (MSDS)	I		
• recognise faulty equipment and take appropriate action according to organisational procedures	GW		
• recognise hull damage and deterioration and take appropriate action according to organisational procedures	O		
• select and use correct tools and equipment for maintenance task	I		
Assessor name and number:	<input type="text"/>		
Assessor signature:	<input type="text"/>	Date:	<input type="text"/> / <input type="text"/> / <input type="text"/>
Notes			

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARC035 Operate and maintain extra low and low voltage electrical systems and equipment			
• apply safety requirements throughout the work sequence including the use of personal protective equipment (PPE)	IW		
• carry out maintenance tasks, including: - replacing fuses - testing battery voltage and specific gravity - topping up battery electrolyte levels - testing charging system voltage output	IW		
• complete all work to specification	IW		
• communicate with other crew members	G		
• connect and disconnect shore power	IW		
• ensure correct requirements and details of basic maintenance of electrical systems and equipment are available	I		
• implement safe and environmentally responsible work practices in testing and maintenance activities	IW		
• locate, interpret and apply manufacturer specifications for electrical systems and equipment	I		
• operate direct current (DC) systems and conduct operator preventive maintenance according to manufacturer recommendations, regulations and vessel operating procedures to ensure safe operation	IW		
• operate extra low and low voltage electrical systems according to manufacturer recommendations, regulations and vessel operating procedures to ensure safe operation	IW		
• performing isolation, lock out and tag out procedures	IW		
• recognise and rectify electrical system faults and where necessary take steps to make them immediately safe, including: - battery faults - failure of alternators - failure of starter motors	GW		
• select and use appropriate processes, tools and equipment	IW		
Assessor name and number:	<input type="text"/>		
Assessor signature:	<input type="text"/>	Date:	<input type="text"/> / <input type="text"/> / <input type="text"/>
Notes			

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARC036 Operate deck machinery			
• apply work health and safety (WHS) / occupational health and safety (OHS) requirements and work practices	I		
• communicate with other crew members	G		
• safely use deck machinery, including: - basic hydraulic system - capstans - electric or hydraulic winches or windlasses - lifting equipment	IW		
• undertake pre-operational checks, including: - checking oils, lubricants and hydraulic lines - inspection of safety guards - operation of emergency stops	IW		
Assessor name and number:	<input style="width: 100%; height: 20px;" type="text"/>		
Assessor signature:	<input style="width: 100%; height: 20px;" type="text"/>	Date:	<input style="width: 20px; height: 20px;" type="text"/> / <input style="width: 20px; height: 20px;" type="text"/> / <input style="width: 20px; height: 20px;" type="text"/>
Notes			

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARC039 Operate marine internal combustion engines, and propulsion and auxiliary system			
<ul style="list-style-type: none"> • check pressures, temperatures and revolutions during start-up and warm-up periods according to technical specifications IW 			
<ul style="list-style-type: none"> • comply with vessel operating procedures and manufacturer recommendations for start-up and making available fuel, lubricants, cooling water and air IW 			
<ul style="list-style-type: none"> • comply with work health and safety (WHS) / occupational health and safety (OHS) requirements and work practices I 			
<ul style="list-style-type: none"> • implement safe and environmentally responsible work practices IW 			
<ul style="list-style-type: none"> • manage fuel systems safely according to regulations, manufacturer instructions and vessel procedures, so as to prevent pollution of the marine environment IW 			
<ul style="list-style-type: none"> • operate lubricating systems according to established procedures and so as to prevent pollution of the marine environment IW 			
<ul style="list-style-type: none"> • operate main propulsion plant auxiliary systems to ensure safe operating conditions IW 			
<ul style="list-style-type: none"> • operate marine internal combustion engines within technical specifications IW 			
<ul style="list-style-type: none"> • operate pumping systems according to manufacturer instructions, operational procedures and regulations to ensure safety of operation and prevention of pollution of the marine environment IW 			
<ul style="list-style-type: none"> • operate refrigeration system according to manufacturer instructions, operational procedures and regulations to ensure safety of operation and prevention of pollution of the marine environment IW 			
<ul style="list-style-type: none"> • prepare shut-down and supervise cooling down of engine according to vessel operating procedures and manufacturer recommendations IW 			
<ul style="list-style-type: none"> • undertake pre-operational and start-up checks, including: IV <ul style="list-style-type: none"> - coolant levels - pressures and temperatures - filters - fuel level - batteries and turning on isolator - oil level - starting system - sufficient power available on switchboard before closing isolator or breaker - inspecting for leaks and faults on engines, equipment, lines and connections - inspecting safety guards and shafts - operating valves as required - visual check electrical leads 			
Assessor name and number:	<input style="width: 100%; height: 30px;" type="text"/>		
Assessor signature:	<input style="width: 80%; height: 30px;" type="text"/>	Date:	<input style="width: 15%; height: 30px;" type="text"/> / <input style="width: 15%; height: 30px;" type="text"/> / <input style="width: 15%; height: 30px;" type="text"/>
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Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARF027 Apply basic survival skills in the event of vessel abandonment			
• collect, manage and interpret information on the use of lifesaving equipment and procedures to be followed when order to abandon vessel is given	I		
• communicate effectively with other personnel and passengers during simulated abandon vessel musters and emergencies	IV		
• determine type and extent of emergency and appropriate survival action to be taken	IV		
• remain afloat without a lifejacket for at least 5 minutes	IP		
• don a lifejacket in water	IP		
• ensure behaviour reflects statutory requirements pertaining to lifesaving appliances	IP		
• swim in a lifejacket for a minimum of 50 m	IP		
• tow with a life jacket for a minimum of 25 m	IP		
• maintain a group huddle for at least 10 minutes	GP		
• swim in a group conga line for a minimum of 50 m	GP		
• hold heat escape lessening posture for at least 5 Minutes	IP		
• operate radio equipment, including very high frequency (VHF) or high frequency (HF) radios	IW		
• operate and use orange smoke flares or red handheld flares	G		
• operate and use life buoys	IP		
• operate and use lifejacket or personal flotation devices	IP		
• read and interpret instructions on emergency procedures, safety management systems and plans	I		
• recognise and interpret muster signals appropriately	IV		
Assessor name and number:	<input type="text"/>		
Assessor signature:	<input type="text"/>	Date:	<input type="text"/> / <input type="text"/> / <input type="text"/>
Notes	 		

Candidate name:		
Practical assessment tasks		Assessor Initials
		Date
MARF028 Follow procedure to minimise and fight fires on board a vessel		
<ul style="list-style-type: none"> • apply extinguishing media to a fire, including: <ul style="list-style-type: none"> - water - dry chemical powder 	GF	
<ul style="list-style-type: none"> • apply work health and safety (WHS) / occupational health and safety (OHS) requirements and work practices 	I	
<ul style="list-style-type: none"> • communicate and work collaboratively as a member of a team in a firefighting operation 	GF	
<ul style="list-style-type: none"> • correctly use vessel closure and shutdown systems 	IV	
<ul style="list-style-type: none"> • identify fire hazards and risks 	G	
<ul style="list-style-type: none"> • use a fire blanket to extinguish a fire 	GF	
<ul style="list-style-type: none"> • use fire hose, lines (jet spray to fog stream) 	I	
Assessor name and number:	<input style="width: 100%; height: 20px;" type="text"/>	
Assessor signature:	<input style="width: 100%; height: 20px;" type="text"/>	Date: / /
Notes		
MARF029 Meet work health and safety requirements		
<ul style="list-style-type: none"> • access workplace information on safety management systems 	I	
<ul style="list-style-type: none"> • apply safe manual handling techniques 	I	
<ul style="list-style-type: none"> • cooperate with employer or supervisor on any action taken to comply with WHS/OHS legislation 	I	
<ul style="list-style-type: none"> • demonstrate safe work practices 	I	
<ul style="list-style-type: none"> • identify and respond to typical emergency situations 	IV	
<ul style="list-style-type: none"> • identify isolation points for equipment and follow workplace procedures for lock out or tag out of equipment as required 	IW	
<ul style="list-style-type: none"> • maintain housekeeping standards in work area 	IW	
<ul style="list-style-type: none"> • select, fit and use appropriate personal protective clothing and equipment 	IW	
<ul style="list-style-type: none"> • take reasonable care for own health and safety 	IW	
Assessor name and number:	<input style="width: 100%; height: 20px;" type="text"/>	
Assessor signature:	<input style="width: 100%; height: 20px;" type="text"/>	Date: / /
Notes		

Candidate name:			
Practical assessment tasks		Assessor Initials	Date
MARF030 Survival at sea using survival craft			
• apply appropriate handling strategies to manoeuvre survival craft	IP		
• board a life raft unassisted while wearing a lifejacket	IP		
• communicate with other crew members	G		
• determine type and extent of emergency	G		
• jump safely from a height into the water while wearing a life jacket, and according to established survival practice	IP		
• operate radio equipment	IW		
• participate in training, musters and emergency drills	IV		
• recognise and interpret muster signals	IV		
• right an inverted life raft unassisted while wearing a lifejacket according to established survival practice	IP		
• swim while wearing a lifejacket and float without a lifejacket according to established survival practice	IP		
• use a rescue quoit to assist a person to the life raft	GP		
• use paddles to manoeuvre survival craft	GP		
• use survival equipment	GP		
Assessor name and number:	<input type="text"/>		
Assessor signature:	<input type="text"/>	Date:	<input type="text"/> / <input type="text"/> / <input type="text"/>
Notes			
MARJ006 Follow environmental work practices			
• apply safety and hazard control procedures when disposing of waste and garbage	I		
• apply work health and safety (WHS) / occupational health and safety (OHS) practices, including hazard identification, risk assessment and risk control options	I		
• recognise procedures and follow instructions for environmental work practices	I		
• report environmental hazards and risks in a timely way	I		
Assessor name and number:	<input type="text"/>		
Assessor signature:	<input type="text"/>	Date:	<input type="text"/> / <input type="text"/> / <input type="text"/>
Notes			