

Australian Government

Australian Maritime Safety Authority

AMSA Mandated Practical Assessment Marine Engine Driver Grade 2 NC

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 Marine Order 505 and 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 \geq 150kW 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 (≥150kW), 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.

The AMPA must be completed and signed off within 12 months of the date of the first assessment. The candidate will need to be reassessed with a new AMPA form should it not be completed in that time.

This AMPA is valid for submission to AMSA for the MED 2 certificate of competency for 12 months from the date signed on the cover page.

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.

1	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
Р	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)
0	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.

AMPA tasks may be signed off by different AMPA approved assessors from different RTOs. A partially completed AMPA brought to a second or subsequent RTO may be completed and the front cover page signed when all AMPA tasks have been completed, provided this occurs within 12 months of the date of the first assessment.

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
Work effectively w	ith others			
 identify own respon requirements 	sibilities in relation to the team and the organisation's	I		
 work effectively in a 	group	G		
Assessor name and number:				
Assessor signature:		Date:		
Notes				
Maintain marine ir auxiliary systems	ternal combustion engines, propulsion plant and	d		
 apply safety require personal protective 	ments throughout the work sequence including the use o equipment (PPE)	f IW		
 complete all work to 	specification	IW		
propulsion plant and	r maintenance of marine internal combustion engine, d auxiliary systems to manufacturer specifications and s, so as to prevent pollution of the marine environment	GW		
 complete maintenai 	nce records	I		
Iubricating		IW		
 maintain emergenc; 	y equipment	IW		
 overhaul pumps 		IW		
 perform breakdown 	maintenance in the event of failure of engine systems	GW		
	maintenance in the event of failure of auxiliary systems	GW		
 read and interpret n material safety data 	nanufacturer specifications and safety data sheets (SDS) sheets (MSDS)	/ I		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Undertake basic m	aintenance of electrical systems			
	ments throughout the work sequence, including the ective equipment (PPE)	I		
 carry out maintenand battery maintenand testing of alarm sy testing of emergend testing of power and 	ce stems icy generator	IW		
 blown fuses or ope earthing 	generating systems	IW		
· ·	environmentally responsible work practices	IW		
 perform isolation, lo 	ck out and tag out procedures	IW		
Assessor name and number:				
Assessor signature:		Date:		
 Complete engine r apply work health a 	oom tasks nd safety (WHS) / occupational health and safety (OHS)			
	hazard identification, risk assessment and risk control opt	ions		
 carry out housekeep correct disposal of pumping of bilges removal or lashing 	waste	GV		
 complete all work to 	specifications	GV		
 keep running and m 	aintenance logs	I		
 sequencing tasks in according to proced 	conjunction with others involved in or affected by work plures	an, I		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Maintain hull out o	of water			
	nd safety (WHS) / occupational health and safety (OHS) hazard identification, risk assessment and risk control opt	l ions		
 carry out maintenar examining anchor inspecting: anodes hull fittings propeller, shafts rudder, rudder s watertight and w 	and seals	IW		
 plan and prepare for 	r maintenance	I		
 read, interpret and or requirements 	comply with manufacturer instructions including all WHS/C)HS I		
 read, interpret and maintenance of ves 	comply with operating and service manuals for sel hull	I		
 read, interpret and data sheets (MSDS 	comply with safety data sheets (SDS) / material safety)	I		
 recognise faulty equorements organisational procession 	uipment and take appropriate action according to edures	GW		
 recognise hull dama according to organi 	age and deterioration and take appropriate action sational procedures	0		
 select and use correl 	ect tools and equipment for maintenance task	I		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Operate and main and equipment	tain extra low and low voltage electrical systems			
	ments throughout the work sequence including the use of equipment (PPE)	IW		
- topping up battery	age and specific gravity	IW		
complete all work to	specification	IW		
 communicate with c 	other crew members	G		
 connect and discon 	nect shore power	IW		
 ensure correct required and equipment are 	irements and details of basic maintenance of electrical syste available	ms I		
 implement safe and maintenance activit 	environmentally responsible work practices in testing and ies	IW		
 locate, interpret and equipment 	apply manufacturer specifications for electrical systems and	i I		
	nt (DC) systems and conduct operator preventive maintenan acturer recommendations, regulations and vessel operating re safe operation	ice IW		
	nd low voltage electrical systems according to manufacturer regulations and vessel operating procedures to ensure safe	IW		
 performing isolation 	, lock out and tag out procedures	IW		
		GW		
 select and use appr 	opriate processes, tools and equipment	IW		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Operate deck mach	ninery			
 apply work health an requirements and wo 	nd safety (WHS) / occupational health and safety (OHS) ork practices	I		
 communicate with ot 	her crew members	G		
 safely use deck mac basic hydraulic sys capstans electric or hydraulic lifting equipment 		IW		
		IW		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Operate marine int auxiliary system	ernal combustion engines, and propulsion and			
 check pressures, te according to technic 	mperatures and revolutions during start-up and warm-up cal specifications	periods IW		
	operating procedures and manufacturer recommendations available fuel, lubricants, cooling water and air	s for IW		
 comply with work he requirements and w 	ealth and safety (WHS) / occupational health and safety (C ork practices	DHS) I		
 implement safe and 	environmentally responsible work practices	IW		
	ns safely according to regulations, manufacturer instruction so as to prevent pollution of the marine environment	ns and IW		
	systems according to established procedures and so as to the marine environment) IW		
operate main propuls	sion plant auxiliary systems to ensure safe operating condition	ons IW		
operate marine inte	rnal combustion engines within technical specifications	IW		
	stems according to manufacturer instructions, operational ulations to ensure safety of operation and prevention of po nment			
	n system according to manufacturer instructions, operation ulations to ensure safety of operation and prevention of po nment			
	and supervise cooling down of engine according to vesseles and manufacturer recommendations	I IW		
 coolant levels pressures and tem filters fuel level batteries and turni oil level starting system sufficient power av 	ng on isolator vailable on switchboard before closing isolator or breaker s and faults on engines, equipment, lines and connections juards and shafts s required	IV		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
Practical assessme	ent tasks		Assessor Initials	Date
Manage fuel systems				
 comply with work health and safety (WHS) / occ and pollution control, legislation and policies 	upational health and safety (OHS) I		
 conduct refuelling completion procedures, includ with fuel supplier and valve closure 	ding communications	GV		
 manage refuelling to ensure safety of operation environment 	and avoid pollution of marine	GV		
measure tank levels		IV		
 recognise faulty equipment and take appropriate 	e action	IW		
 recognise problems and hazards during refuelling and take appropriate action 	ng and fuel transfer operation	s, G		
 select and use relevant equipment required for r operations 	refuelling and fuel transfer	GV		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Operate and monit plant and auxiliary	or marine internal combustion engines, propuls system	ion		
	ealth and safety (WHS) / occupational health and safety (I, legislation and policies	OHS) I		
 identify construction 	al parts of marine internal combustion engines	IW		
 maintain logs, includ maintenance logs oil record book running logs 	ding:	I		
 manage lubricating 	systems and prevent pollution of the marine environment	IW		
 manage cooling sys 	tems	IW		
 manage pumping sy 	stems and prevent pollution of the marine environment	IW		
 manage stowage of 	flammable/explosive materials and/or refrigerant gases	G		
 operate main propu parameters 	lsion plant and auxiliary systems within recommended	IW		
 prepare vessel and 	machinery for sea	IV		
 recognise and rectif 	y operational faults	GW		
 secure vessel and r 	nachinery after voyage	IV		
 take action in the ev 	vent of malfunction or emergency	GW		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
Practical as	sessment tasks		Assessor Initials	Date
Operate electrical system				
 adjust electrical supply to accommodate 	e load demand	IW		
 apply work health and safety (WHS) / o and pollution control, legislation and po 		I		
 connect and disconnect shore supply 		IW		
 locate, interpret and apply manufacture equipment 	r specifications for electrical systems	and I		
 operate and monitor alternating current systems according to manufacturer rec operating procedures to ensure safe operating 	ommendations, regulations and vesse			
operate electrical systems and equipment		IW		
perform isolation, lock out and tag out procedures		IW		
recognise and rectify operational faults		IW		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Apply basic surviv	al skills in the event of vessel abandonment			
	d interpret information on the use of lifesaving equipment and llowed when order to abandon vessel is given	t I		
	ively with other personnel and passengers andon vessel musters and emergencies	IV		
determine type and extent of emergency and appropriate survival action to be taken		IV		
 remain afloat without 	ut a life jacket for at least 5 minutes	IP		
 don a lifejacket in w 	rater	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 	t for a minimum of 25 m	IP		
 maintain a group hu 	uddle for at least 10 minutes	GP		
 swim in a group cor 	nga line for a minimum of 50 m	GP		
 hold heat escape le 	ssening 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 				
 recognise and inter 	pret muster signals appropriately for indicated emergency	IV		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Follow procedure	to minimise and fight fires on board a vessel			
apply extinguishing media to a fire, including: water dry chemical powder GF				
	nd safety (WHS) / occupational health and safety (OHS)	I		
communicate and w operation	ork collaboratively as a member of a team in a firefighting	GF		
 correctly use vesse 	closure and shutdown systems	IV		
 identify fire hazards 	and risks	G		
 use a fire blanket to 	extinguish a fire	GF		
use fire hose, lines	(jet spray to fog stream)	I		
Assessor name and number:		r		
Assessor signature:		Date:		
	and safety requirements			
	nformation on safety management systems	<u> </u>		
apply safe manual h		I		
cooperate with emp WHS/OHS legislation	loyer or supervisor on any action taken to comply with on	I		
 demonstrate safe w 	•	<u> </u>		
,	t to typical emergency situations	IV		
 identify isolation points for equipment and follow workplace procedures for lock out or tag out of equipment as required IW 		IW		
		IW		
• select, fit and use appropriate personal protective clothing and equipment				
 take reasonable car 	e for own health and safety	IW		
Assessor name and number:				
Assessor signature:		Date:		
Notes				

Candidate name:				
	Practical assessment tasks		Assessor Initials	Date
Survival at sea us	ing survival craft			
 apply appropriate h 	andling strategies to manoeuvre survival craft	IP		
 board a life raft una 	ssisted while wearing a lifejacket	IP		
 communicate with or 	other crew members	G		
 determine type and 	extent of emergency	G		
	height into the water while wearing a life jacket, stablished survival practice	IP		
 operate radio equip 	ment	IW		
 participate in trainir 	g, musters and emergency drills	IV		
 recognise and inter 	pret muster signals	IV		
 right an inverted life established surviva 	e raft unassisted while wearing a lifejacket according to I practice	IP		
 swim while wearing established surviva 	a lifejacket and float without a lifejacket according to I practice	IP		
• use a rescue quoit	to assist a person to the life raft	GP		
 use paddles to mar 	oeuvre survival craft	GP		
 use survival equipn 	nent	GP		
Assessor name and number:				
Assessor signature:		Date:		
Notes				
	ntal 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				
recognise procedures and follow instructions for environmental work practices				
report environmental hazards and risks in a timely way				
Assessor name and number:				
Assessor signature:		Date:		
Notes				