



SURF LIFE SAVING[®]
NEW ZEALAND

Inflatable Rescue Boat

Driver Award Workbook
2020



IRB Driver Workbook:

Senior Lifeguard Award - IRB Driver Workbook

Name: _____

Date of Birth: _____

Membership Number: _____

Club: _____

I, _____ endorse that the above named
has satisfactorily completed the required sessions for the award as
indicated and is a member of the Club named above.

Signed: _____

Club Committee Member

Date: _____

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Introduction

The IRB Candidate Workbook (IRBCW) is designed to help you prepare for the Senior Lifeguard Award – IRB Driver examination. The IRBCW is also used to gather information about what you have learnt during the instruction phase of the IRB qualifications.

Qualification Requirements

Senior Lifeguard Award - IRB Driver (SLA-IRBD)

Minimum Age: 16 years

Pre-Requisites: Surf Lifeguard Award
IRB Crewpersons Module
Marine VHF Radio Operators Qualification
Prior to sitting exam and after attaining SLA, complete a minimum 10 hours driving (logged in IRB Logbook and signed off by instructor in workbook pg 20).

The SLA-IRBD is made up of the following Units:

1. Drive an Inflatable Rescue Boat (IRB)
2. Demonstrate and explain the factors involved in the set up and close down of an IRB engine

Exam Components (SLA-IRBD)

Candidate(s) must be accompanied by a Club representative who will have a completed workbook for each candidate i.e.

- All relevant questions completed correctly
- The front page of the relevant section completed by a Club Committee Member
- The relevant workbook completion page filled out and signed by their instructor

1. Candidate Workbook Check

One randomly picked candidate workbook must be checked from each attending club. The candidate workbook checked MUST be completed satisfactorily, if not, the candidate must not complete the exam and all other candidate workbooks from the club must also be checked.

2. Theory Test

Candidates MUST PASS before progressing to the 3rd component. Correctly answer

Design and features of an IRB engine

Driving skills

Maritime regulations

Rescues

IRB engine setup

Operations

IRB engine closedown

3. Practical Test

The following practical test components must be covered:

IRB engine setup

Solo driving

Engine reinstatement

Single person rescue

Driving skills

Multiple patient rescue

IRB engine closedown

Fuel

1. What is the correct ratio for petrol: outboard engine oil for an IRB engine?

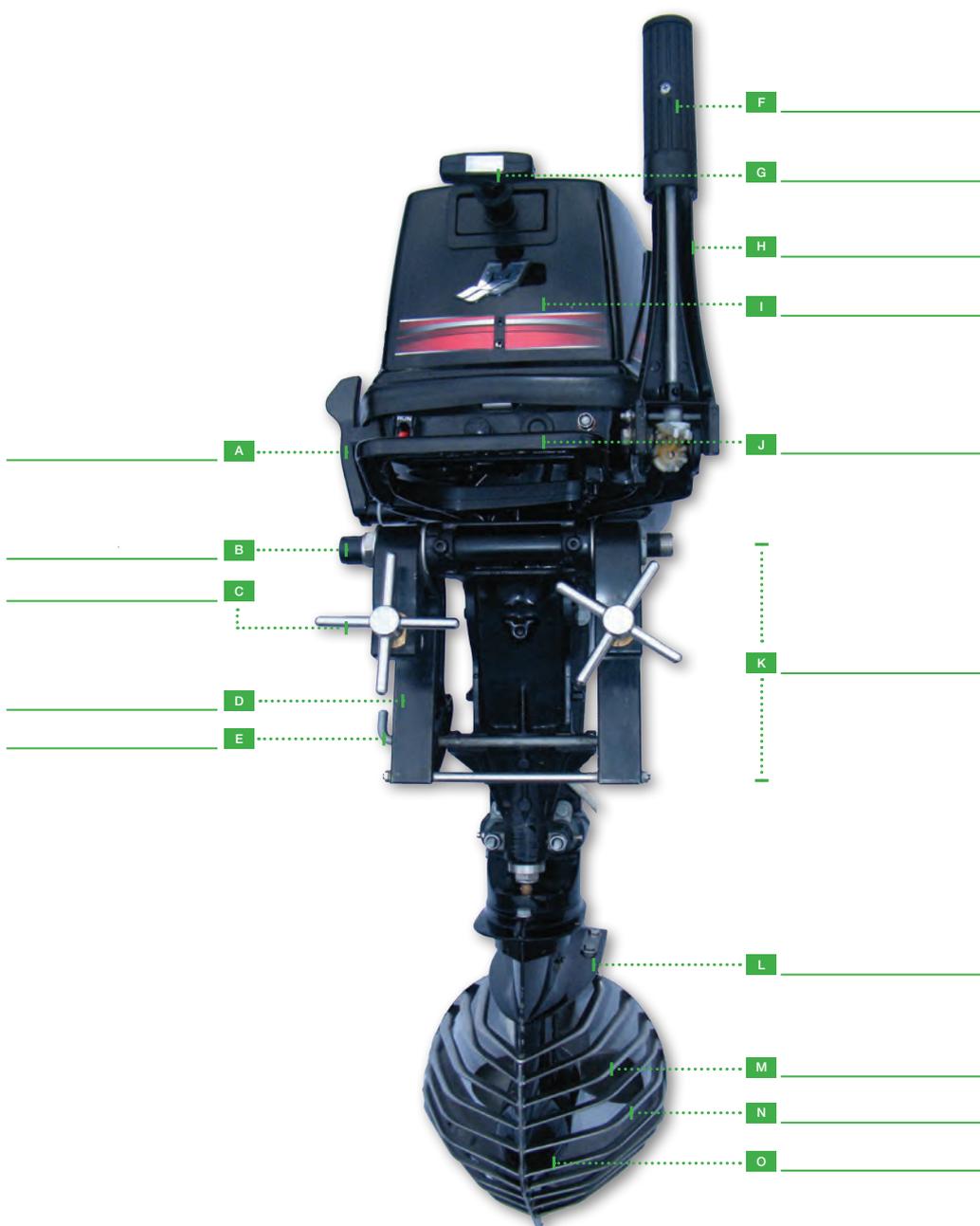
2. What should be done with the fuel bladder after patrol/training?

3. List the steps/precautions you would take to fill a fuel bladder.

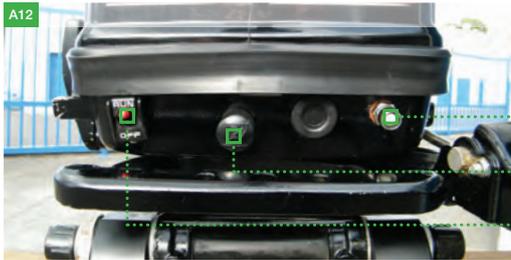


Design and features of an IRB engine

4. Label the parts of the engine by filling in the spaces below (there are four photos, see over the page for the others), all spaces must be identified:



Design and features of an IRB engine





A

B

C

D



Design and features of an IRB engine

5. When would you need to reinstate an IRB engine?

6. Number each of the steps below (1-10) to give the correct order to reinstate an IRB engine.

	<p>Remove spark plugs: remove both spark plugs using a spark plug spanner</p>
	<p>Replace spark plugs and lubricate powerhead: clean, dry and replace the spark plugs. Spray inside spark plug caps lightly with dewatering agent and refit to plugs. Spray powerhead lightly with dewatering agent.</p>
	<p>Run engine at sea: fit the engine to IRB, launch and run under load for at least 30 minutes.</p>
	<p>Flush carburettor: stand the engine upright, connect fuel line bayonet, pump fuel through the carburettor to ensure no water remains, retighten drain plug.</p>
	<p>Gather items required: dewatering agent, foot pump, fuel, screwdriver, spare spark plugs, spark plug spanner, flush tank and fire extinguisher.</p>
	<p>Pump water from the powerhead: tilt the engine so that the spark plug holes are facing down: Ensure kill switch is in OFF position and pull start the engine 20 times.</p>
	<p>Drain Carburettor: loosen the drain plug from the carburettor and tilt the engine, allowing water and fuel to drain from the carburettor.</p>
	<p>Run engine in flush tank: Place the engine in the flush tank and start engine, check the tell tale and run in tank for 10 minutes.</p>
	<p>Wash engine: hose the engine thoroughly including inside the engine cover with fresh water.</p>
	<p>Flush the cylinders with fuel: tilt the engine so that the spark plug holes are facing up and pour about half a cup of fuel mix into each cylinder. Hold the engine vertically and shake vigorously back and forth and side to side. Place the engine in a horizontal position (spark plug holes facing down). Ensure kill switch is in OFF position, pull start the engine 10 times.</p>

7. After a capsizing, if the IRB engine won't start after repeated reinstatement attempts what must be done?

Design and features of an IRB engine

8. What must you do if a complete engine reinstatement cannot be done after submersion?

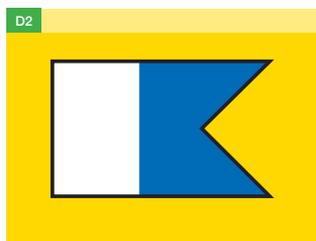
9. What areas of the propeller guard should be checked before operation?

10. What can occur if the wrong spark plugs are used?

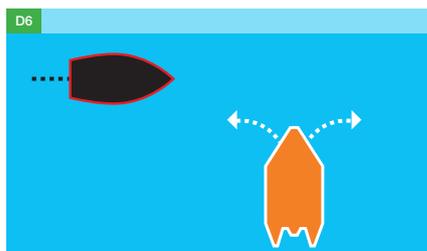
Maritime regulations

11. List the three areas where a 5 knot speed limit applies.

12. What does the blue and white flag below signify?



13. In what direction do both boats alter course in order to avoid collision?

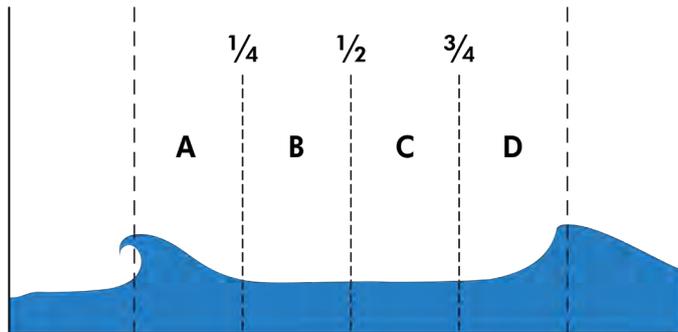


14. Who is responsible for the safe operation of the IRB on the water?

15. When operating an IRB in a harbour, what side of a red marker should you travel?

Maritime regulations

16. Describe four internationally recognised distress signals.



17. When returning to shore, which is the zone you should remain in?
Please circle the correct answer below:

A **B** **C** **D**

18. When returning to shore, what should the crewperson do when the driver does not have a clear view ahead?

IRB engine setup

19. List the steps you take to setup an IRB engine.



20. What procedures do you follow when starting an IRB engine?



IRB engine setup

21. How do you know if the water pump is circulating water through the powerhead?

Driving skills and technique

22. As a driver describe what you would do if you fell out?

23. What direction should you point the IRB when launching?

24. What should you do if the crewperson is having difficulty holding the IRB prior to boarding due to waves pushing it around?



25. When approaching the beach, at what point should the engine be switched off and tilted inboard?



26. How should you attempt to negotiate large broken waves?

Driving skills and technique

27. What should you do if a wave catches up to you from behind?

28. What should you do if the crewperson falls out?

29. For the list of situations below, detail the body positions and techniques you would adopt if solo driving.

a. Launching off the beach:

b. Parallel running:

c. Surf driving:

d. Approaching waves:



Rescues

- 31.** What side of the IRB should a patient be on when you approach for a single patient rescue?



- 32.** How can you assist the crewperson to bring an unconscious patient onboard?

- 33.** What options do you have when confronted with a multiple patient rescue?

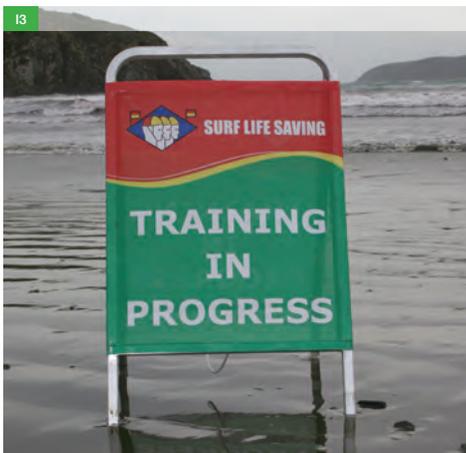
- 34.** When returning to shore with an unconscious /injured patient what should you do?



Operations

35. What should the Driver check before an IRB is placed on patrol?

36. What precautions must be taken prior to undertaking any IRB training during patrol hours?



37. List the steps involved in repairing minor tears or punctures to the IRB hull.

Senior Lifeguard Award - IRB Driver workbook completion

The tables below identify the workbook sections and tasks that must be completed prior to attending the examination. The tasks in bold are those that will also be completed during the examination. Information on each task is located in the IRB Instructor Resources.

Workbook Section	Tick when completed	Date
IRB engine		
Maritime regulations		
IRB engine setup		
Driving skills and technique		
IRB engine closedown		
Rescues		
Operations		

Task to complete prior to exam	Tick when completed	Date
Setup an IRB engine for use		
Reinstate an IRB engine		
Drive an IRB in and out through the surf		
Perform a single person rescue		
Perform a multiple patient rescue		
Drive an IRB solo		
Closedown an IRB engine after use		
10 hours of driving		

Instructor: _____

Signature: _____

Senior Lifeguard Award IRB Driver examination beach card

Candidate name: _____

Club: _____

Membership Number: _____

Venue: _____

Date: _____

Test	Pass	Fail	Examiners signature
Theory paper			
IRB engine setup			
Engine reinstatement			
Driver skills			
Single person rescue			
Multiple patient rescue			
Solo driving			
IRB engine closedown			
Examiners name:			
Examiners signature:			Pass / Re-Test

