



Student ID.....

Surname.....

Other Name.....

Squad/College.....

Signature.....

Date.....

Please ensure that this completed assignment is handed to your teacher before the due date of.....

| Total Questions | Possible Marks | Marks Achieved |
|-----------------|----------------|----------------|
| 30              | 30             |                |

**2008**

**ASSIST IN SEARCH AND RESCUE  
THEORY ASSIGNMENT**

PASS MARK = 30

TOTAL MARKS AVAILABLE = 50

Pages in this Question Booklet = 7

With written tasks organise your assessment into a soft folder. Avoid using plastic sleeves, as your assessor needs to make marking notes and give you written feedback directly onto your work.

## **Element 1- Assist in planning search and rescue operations**

Describe to your assessor or write a short answer, using diagrams if required, to the following questions.

### **Question No.1**

List twelve distress signals.

### **Question No.2**

List five International code single letter signals.

### **Question No.3**

How would an aircraft direct a surface craft without radio aids?

### **Question No.4**

What are the components of a search and rescue plan?

### **Question No.5**

What type of information is task information?

### **Question No.6**

What type of information is operational information?

**Question No.7**

How is the probable position is found from the LKP (allow for wind and current)?

**Question No.8**

What is the relationship of coverage factor to sweep width and track spacing?

**Question No.9**

How would you navigate an expanding square search?

**Question No.10**

When can a sector search be most effective?

**Question No.11**

Describe two means of using two vessels in a parallel track search.

## **Element 2- Establish and maintain radio-communications**

Describe to your assessor or write a short answer, using diagrams if required, to the following questions.

### **Question No.1**

List five radio communication facilities supported in the Australian SRR?

### **Question No.2**

What are the 27MHz, VHF and MFHF distress frequencies?

### **Question No.3**

What frequency would you use on HF to contact Charleville?

### **Question No.4**

What do you understand by "secure" on Police radio?

### **Question No.5**

What are the comparative detection accuracies of 121.5MHz and 406MHz EPIRBS? Why is the later a more preferable EPIRB for distant voyagers in the South Pacific?

### Question No.6

Explain the small craft MAREC report below?

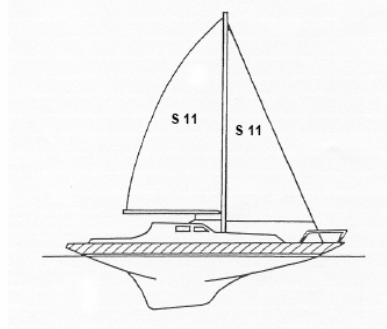


Figure F.13 Complete example: Sailing Boat

**Voice:**

MAREC 8/03, RCC AUSTRALIA  
ALFA, SAILING PART CABIN, FAMILY  
OF MAN, VICTOR KILO SEVEN FOUR  
EIGHT TWO, OFF SHORE RACING  
BRAVO, MAKE PETERSON FOUR  
ZERO, SAIL MARKINGS SIERRA ONE  
ONE  
CHARLIE, MASTHEAD SLOOP RIG  
DELTA, CARVEL, WOOD, BLACK WITH  
WHITE CABIN  
ECHO, FALLING STEM, NEGATIVE  
TRANSOM STERN  
FOXTROOT, KEEL  
GOLF, EIGHT METRES  
HOTEL, PULPIT FORWARD  
INDIA, TWO

**TLX/RTG**

MAREC 8/03, RCC AUSTRALIA  
A/SAILPC/ FAMILY OF MAN/NAVIS  
12/PLEASURE  
B/PETERSON 40/S 11  
C/SLOOP  
D/CARVEL/WOOD/BLACK WITH WHITE  
CABIN  
E/FALL/NTRANS  
F/KEEL  
G/LOA 8  
H/PULPIT FORWARD  
I/2

### **Element 3- Assist in search and rescue operations**

Describe to your assessor or write a short answer, using diagrams if required, to the following questions.

#### **Question No.1**

Write a short Sitrep describing in detail of your last rescue mission at arrival at the incident scene for the benefit of an OSC.

#### **Question No.2**

Which agency does the overall responsibility for SAR in Australia rest with?

#### **Question No 3**

Which agency does the responsibility for SAR in States and Territories rest with?

#### **Question No.4**

What role in the chain of command does the first rescue vessel to arrive at the incident scene assume? Explain why.

#### **Question No.5**

List three situations in which a Rescue Skipper would request that an OSC of greater authority be requested to take over the immediate rescue coordination.

**Question No.6**

Write the position of a known inshore feature in your operating area in a manner suitable for clear and concise radio communication.

**Question No.7**

How might a Rescue Vessel notify its presence in the area to survivors by day?

How might a Rescue Vessel notify its presence in the area to survivors by night?

**Question No.8**

List two advantages and two disadvantages in enlisting the assistance of a merchant vessel at a SAR incident.

**Question No.9**

What should never be done with a rescuing helicopters winch wire?

**Question No.10**

What is the signal to a helicopter that the casualty is ready to be lifted in rescue strop?

**Question No.11**

Describe two common forms of helicopter rescue apparatus.

**Question No.13**

List three situations that would result in a rescue operation being concluded.