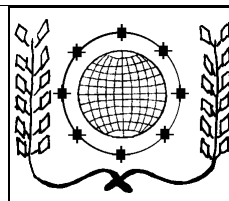
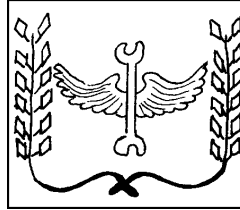


ADVANCED NAVIGATION
INTEREST BADGE


	Date Passed	Signed
1. Hold Map Reading Scoutcraft Badge or complete all the requirements.	_____	<u>1</u> _____
2. Explain to the satisfaction of the examiner how the SA coordinate system works and demonstrate using a 1:50 000 Topographical map, how to plot and read Geographical and Projected coordinates.	_____	<u>2</u> _____
3. Explain what is meant by GPS and the difference between Single and Differential (DGPS) processing.	_____	<u>3</u> _____
4. What do you understand is Real-Time processing?	_____	<u>4</u> _____
5. Explain what is meant by a Waypoint.	_____	<u>5</u> _____
6. Show knowledge of the setup procedure for a GPS.	_____	<u>6</u> _____
7. Explain what a GIS is.	_____	<u>7</u> _____
8. Identify and explain the different ways of obtaining data for a GIS.	_____	<u>8</u> _____
9. Explain what Attributes are.	_____	<u>9</u> _____
10. Successfully load at least 10 Waypoints, as determined by the examiner, and then navigate to these points using the GPS /GIS. The route should be at least 15Km and half the distance can be done on water, animal or bicycles.	_____	<u>10</u> _____

AIR GLIDER
INTEREST BADGE


	Date Passed	Signed
1. Explain the methods of launching a glider, the recovery procedure afterwards and how to park a glider.	_____	<u>1</u> _____
2. Show a knowledge of the different class of glider as defined by the South African Soaring Association.	_____	<u>2</u> _____
3. List the instruments a glider carries and explain their purpose.	_____	<u>3</u> _____
4. Demonstrate a knowledge of the structure and controls of a glider.	_____	<u>4</u> _____
5. Recognise and name six different types of cloud formations and explain the type of flying conditions to be expected in each basic type.	_____	<u>5</u> _____
6. Carry out a daily inspection (pre-flight) on a glider to the satisfaction of the instructor, and explain why the inspection of each part is important to the safe operation of the aircraft.	_____	<u>6</u> _____
7. Explain what produces good soaring conditions.	_____	<u>7</u> _____
8. Act as a member of a launching and recovery crew.	_____	<u>8</u> _____
9. Explain the emergency procedures for a glider in flight in the case of		
a) cable failure in the case of a winch or aero-tow launch, and engine failure in the case of a motor glider;	_____	<u>9a</u> _____
b) structural failure or collision at altitude;	_____	<u>9b</u> _____
c) inability to release cable in the case of :		
i. winch launch		
ii. aero-tow	_____	<u>9c</u> _____
d) altitude loss to the extent that safe soaring is no longer feasible.	_____	<u>9d</u> _____
10. Do two circuits in a glider with an instructor and submit a detailed report on each flight.	_____	<u>10</u> _____
11. Discuss with the examiner the conventional symbols used on aeronautical charts and point out the features over flown on an imaginary cross-country flight of at least 50 nautical miles flying at a height of 600 metres(2 000 feet).	_____	<u>11</u> _____

AIR MECHANIC
INTEREST BADGE


	Date Passed	Signed
1. Understand the basic principles of an aircraft piston engine and know the names and functions of the principal parts.	_____	<u>1</u> _____
2. Demonstrate pre-flight check and a knowledge of aircraft documents.	_____	<u>2</u> _____
3. Have passed the Airmanship Scoutcraft Badge, or complete part 5 of its requirements.	_____	<u>3</u> _____
4. Explain the principles of flight and of airframe construction.	_____	<u>4</u> _____
5. Explain the basic principles of an aircraft jet engine and know the names and functions of the principal parts.	_____	<u>5</u> _____
6. Build a non-flying model aircraft with working control surfaces operated by a control column. Demonstrate its use.	_____	<u>6</u> _____
7. Have a general knowledge of elementary hydraulics and electrics as applied to aircraft, concerning		
a) Airscrews (and their types)	_____	<u>7a</u> _____
b) Aircraft brakes (including air brakes).	_____	<u>7b</u> _____

AIR METEOROLOGIST
INTEREST BADGE


Date Passed _____ Signed _____

1. Know the basic structure of the atmosphere by:
 - a) explaining the composition of the atmosphere; _____ 1a
 - b) explaining the layers of the atmosphere; _____ 1b
 - c) defining the ICAN standard atmosphere. _____ 1c

2. Explain what is meant by:
 - a) pressure; _____ 2a
 - b) QNH; QFE; QNE; QFF; _____ 2b
 - c) stability and temperature distribution; _____ 2c
 - d) temperature gradients. _____ 2d

3. Explain Buys Ballots law. _____ 3

4. Explain the different ways in which fog is formed as well as day and night visibility. _____ 4

5. Demonstrate and understand the purpose of the following instruments:
 - a) Wet and dry-bulb thermometers _____ 5a
 - b) Barometer. Show that air has weight and pressure. _____ 5b
 - c) Anemometer. Show that the wind has force and pressure. _____ 5c
 - d) Windvane. Build a simple model of a wind vane. _____ 5d
 - e) Rain gauge. Build a simple model of a rain gauge. _____ 5e

6. Describe the measurement of inland and coastal station pressures and
 - a) Name the properties of ISOBARS. _____ 6a
 - b) Describe the types of pressure distribution. _____ 6b
 - c) Explain the variation in air pressure due to altitude, and point out some resulting problems for engines, for flight path hazards and for the pilot himself. _____ 6c

7. Describe the composition of water vapour and explain: saturation; condensation; sublimation; evaporation; relative humidity; dew point and vapour pressure. _____ 7

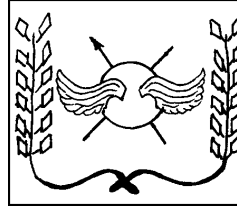
8. Do the following:
 - a) Define pressure gradient force and geostrophic wind. _____ 8a
 - b) Discuss diurnal variation of the surface wind. _____ 8b
 - c) Understand berg winds; sea breezes; land breezes; and indicate six or more ways how a pilot, about to land, can identify wind direction. _____ 8c
 - d) Have passed the Airmanship Scoutcraft Badge, or complete parts 6 and 7 of its requirements. _____ 8d

9. Make a simple forecast from a weather map with special reference to winds, temperature and barometric pressures.

Understand the main forms of airframe icing and engine icing and explain the types of ice accretion in cloud: rime, clear ice, pack snow and freezing rain.

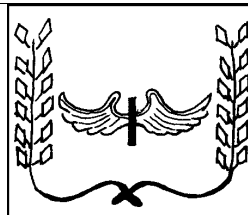
 - a) _____ 9a
 - b) Explain the effects of ice accretion on the performance of an aircraft. _____ 9b

10. Report, either in writing or orally, on a visit to a meteorological station covering the following:
 - a) instruments and their uses
 - b) charts used
 - c) instructions issued to pilots. _____ 10

AIR NAVIGATOR
INTEREST BADGE


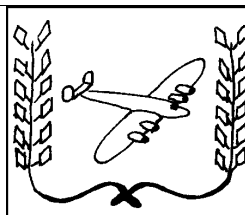
	Date Passed	Signed
1. Hold the Air Planner Scoutcraft Badge.	_____	<u>1</u> _____
2. Apply the semicircle rule and demonstrate the importance of keeping to the correct flight levels in an aeroplane or on a simulator.	_____	<u>2</u> _____
3. Be able, to point out the features over flown on an imaginary triangular cross country flight of at least 150 nautical miles flying at a height of 3000 feet above ground level.	_____	<u>3</u> _____
4. Explain what is meant by:		
a) altitude; height; transition level; transition altitude; flight level.	_____	<u>4a</u> _____
b) QNH; QFE; QNE.	_____	<u>4b</u> _____
5. Measure the distance and true reading between two points on an aeronautical chart and calculate drift, given the wind strength and direction in scale drawing, without the use of a computer.	_____	<u>5</u> _____
6. Illustrate by means of a simple diagram how a fix can be obtained from two position lines. Describe briefly two ways in which bearings can be obtained in an aircraft, thus enabling position lines to be drawn on a chart. Obtain a fix by transferring one of the two position lines.	_____	<u>6</u> _____
7. Demonstrate a basic knowledge of aeronautical maps and charts with emphasis on Lamberts Conformal and Mercator charts. Show a general knowledge of time: GMT and sunrise and sunset.	_____	<u>7</u> _____
8. Plot the magnetic heading required to make good the track between two places on an aeronautical chart given airspeed and a forecast wind velocity. Given a time of departure, work out the estimated time of arrival (ETA). From a time fix indicated on the chart during an imaginary flight, work out the track made good, actual wind velocity, new track required, magnetic heading to steer and revised ETA. This test is to be done using a computer. Complete a standard ATC Flight Plan Form for the imaginary flight.	_____	<u>8</u> _____
9. Explain overdue action.	_____	<u>9</u> _____
10. Show a basic knowledge of radio navigation: radio aid equipment available; VOR; ADF; TACAN; basic operation of ground stations. Understand the concept of Global Positioning Systems (GPS).	_____	<u>10</u> _____

References: Ground Study for Pilots
 Vol 1 S E T Taylor and H A Parmar(Grenada)
Aviation Plotting Notes - Navigation
 Grand Central Aviation College

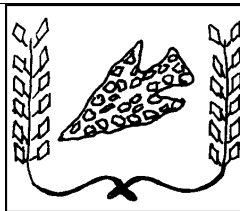
AIR SPOTTER
INTEREST BADGE


Date Passed Signed

- | | |
|--|----------------------|
| 1. Have passed the Airmanship Scoutcraft Badge, or complete parts 1, 3 and 4 of its requirements. | _____ <u>1</u> _____ |
| 2. Sketch the national markings of 10 Air Forces of the world, at least 3 of these should be African Air Forces. | _____ <u>2</u> _____ |
| 3. Be able to name at least 10 international airlines that operate into South Africa and identify their country of origin, at least 3 of these should be African airlines. | _____ <u>3</u> _____ |
| 4. Be able to name the registration prefixes for eight countries in Sub Sahara Africa as well as eight other countries, e.g. ZS=South Africa, VS=Namibia, 3D=Swaziland, G=United Kingdom. | _____ <u>4</u> _____ |
| 5. Log on at least five different occasions a total of 30 or more aircraft that you have observed (they need not all be different types) recording their type, registration number and date where observed | _____ <u>5</u> _____ |


**AIR TRAFFIC CONTROLLER
INTEREST BADGE**

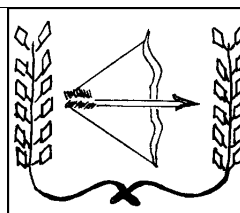
	Date Passed	Signed
1. Have passed the Airmanship Scoutcraft Badge, or complete parts 1 & 2 of its requirements.	_____	<u>1</u> _____
2. Demonstrate aircraft marshalling signals by day and by night.	_____	<u>2</u> _____
3. State, after visiting an airport, the objectives and functions of the air traffic services (i.e. Air Traffic Controller, the tower, approach, information, fire brigade and any other services).	_____	<u>3</u> _____
4. Explain the use of equipment used by minor airfield control towers.	_____	<u>4</u> _____
5. Recite the phonetic alphabet.	_____	<u>5</u> _____
6. Describe the types of separations used in Air Traffic Control.	_____	<u>6</u> _____
7. Identify three local beacons by their mores signals and radio frequency.	_____	<u>7</u> _____
8. Know the mores alphabet.	_____	<u>8</u> _____
9. Demonstrate, with the examiner acting as the pilot, an air traffic controlled circuit pattern from start-up to shut-down.	_____	<u>9</u> _____
10. Draw a runway and its circuit patterns, indicating: <ul style="list-style-type: none"> a) Climb-out; cross wind; down wind; base leg; final leg. b) Runway markings by night and by day. c) Likely windsock position and landing direction relative to wind direction. d) Taxi-ways; over-shoot; under-shoot areas. 	_____	<u>10</u> _____
11. Explain the importance of aircraft adhering to flight levels and how these are calculated and obtained.	_____	<u>11</u> _____
12. Explain the aircraft priority order for landing at an airfield and the rules governing right-of-way.	_____	<u>12</u> _____
13. Know the radio readability scale.	_____	<u>13</u> _____
14. Know the international calls for distress and emergency.	_____	<u>14</u> _____
15. Explain what is meant by the term "QDM 050"	_____	<u>15</u> _____
16. State what type of "flight rules" are available to pilots.	_____	<u>16</u> _____

ARCHAEOLOGIST
INTEREST BADGE


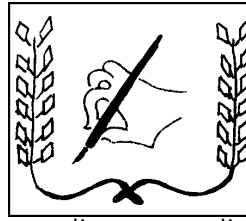
Date Passed Signed

- | | | |
|--|-------|-------------------|
| <p>1. Have a knowledge of the appearance of the following: a Stone Age site and artefact; an Iron Age site and artefact; a rock painting site; a rock engraving site.</p> | _____ | _____
<u>1</u> |
| <p>2. Produce evidence that you have participated for at least five days in an excavation and/or a rock art recording activity under professional supervision. Participation should include at least three of the following activities:</p> <ul style="list-style-type: none"> a) setting out of an excavation b) excavating c) field preservation of finds d) sorting and labelling e) drawing of artefacts f) tracing of rock paintings g) rubbing of rock engravings h) photographing for record purposes i) drawing or mapping. | _____ | _____
<u>2</u> |
| <p>3. Write an illustrated report on the activity in 2 (above), covering the following:</p> <ul style="list-style-type: none"> a) Mark the locality on a 1:50 000 map. b) Descriptions of the material recovered, OR some interpretation of the art recorded. c) Some observations that can be made about the finds. | _____ | _____
<u>3</u> |
| <p>4. Discuss with the examiner the use of the Site Recording Manual of the Archaeological Data Recording Centre, South African Museum, and Cape Town.</p> | _____ | _____
<u>4</u> |
| <p>5. Have a knowledge of the relevant clauses of the National Monuments Act and its practical implications for the protection of archaeological sites.</p> | _____ | _____
<u>5</u> |

ARCHER
INTEREST BADGE

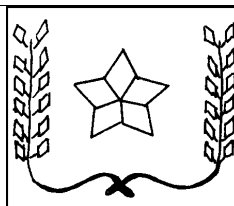


	Date Passed	Signed
1. Discuss with the examiner the main historical changes in the long bow or cross bow.	_____	<u>1</u> _____
2. Know and demonstrate the safety rules governing both long bow and cross bow.	_____	<u>2</u> _____
3. Recognise and explain the use of 10 items of equipment selected by the examiner.	_____	<u>3</u> _____
4. Describe both the targets and the scoring methods in at least 3 internationally recognised competitions	_____	<u>4</u> _____
5. Log on at least five different occasions a total of 30 or more aircraft that you have observed (they need not all be different types) recording their type, registration number and date where observed	_____	<u>5</u> _____
6. Work under a master bowman for six months. On completion of this requirement, undertake maintenance duties as selected by the master bowman for a minimum of three months.	_____	<u>6</u> _____
7. Know the pull strength for the various age groups in your branch of archery.	_____	<u>7</u> _____
8. Participate in an archery competition at club level against other archers. Attain a standard of at least blue/red.	_____	<u>8</u> _____

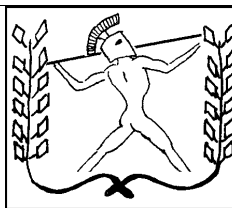

ARTIST
INTEREST BADGE

Date Passed _____ Signed _____

1. Submit at least 3 works done by you in your chosen medium or media. _____ 1 _____
 2. Have a working knowledge of the equipment and media that you used in creating your work. _____ 2 _____
 3. Demonstrate by practical example:
 - a. Perspective
 - b. Colour sense
 - c. Proportion
 - d. Balance
 - e. Shadow and highlight
 - f. Tonal changes to enhance perspective
 _____ 3 _____
 4. Using pencil and paper, produce on the spot a recognisable and artistic sketch of two of the following:
 - a) Caricature of the examiner
 - b) Still-life from within the room
 - c) The view from the window
 - d) A common object (book case, ashtray etc)
 _____ 4 _____
 5. A. Discuss a well-known artist using at least 3 of the following topic:
 - a) Life and background
 - b) Style and works
 - c) Media used
 - d) Message
 - e) Colour and tone
 - f) Favourite subjects
- OR**
- B. Recognise and describe at least 4 styles of work of artist in the following historical groupings:
 - a) Ancient Greece
 - b) Up to the 17th Century
 - c) 17th to 19th Century
 - d) 20th Century
- OR**
- C. Discuss with the examiner at least four art related topics such as classicism, impressionism, cubism and modernism _____ 5 _____


ASTRONOMER
INTEREST BADGE

	Date Passed	Signed
1. Explain the difference between a star and a planet.	_____	<u>1</u> _____
2. Explain the difference between a star and a planet.	_____	<u>2</u> _____
3. Name the planets in order from nearest to furthest from our sun, giving approximate distances. Explain their relative motions and define the ecliptic.	_____	<u>3</u> _____
4. Know the speed of light and explain how this enables man to specify inter-stellar distances. Know the distance of the nearest star (in light years) to the sun and state the time taken for light from the sun to get to Earth.	_____	<u>4</u> _____
5. Explain the phases of the moon and demonstrate, in sunlight, with the use of cardboard discs or balls made to represent the earth and moon (in proportion) how an eclipse of the earth and sun occurs.	_____	<u>5</u> _____
6. Point out, on a cloudless night, at least six prominent constellations and demonstrate from at least two of these how to get an approximate bearing of north.	_____	<u>6</u> _____
7. Understand inter-galactic distances. Point out the locations of two galaxies remote from the Milky Way and give their names.	_____	<u>7</u> _____
8. Explain the concept of the south celestial pole and how to find it using the Southern Cross and pointers.	_____	<u>8</u> _____
9. Demonstrate how to use a star chart by finding and pointing out six prominent stars.	_____	<u>9</u> _____
10. Explain how the positions of the stars at given times (as shown in star tables) can enable one's locality on the surface of the earth to be identified.	_____	<u>10</u> _____
11. Know the meaning of universal standard time (LTC) and its relationship to the local standard time and local sun time.	_____	<u>11</u> _____


**ATHLETE
INTEREST BADGE**

Date Passed Signed

1. Demonstrate the correct methods of walking and running, and of starting a race. _____ 1
2. Discuss the rules for the following:
 - a) Sprint race
 - b) Middle distance and long distance
 - c) Relay races
 - d) Hurdles
 - e) Discus event
 - f) Shot-put
 _____ 2
3. Discuss correct diet and methods of training for athletes. _____ 3
4. Represent your club, Troop or school at an athletic meeting. _____ 4
5. Gain the indicated points in five of the following groups of tests according to your age.

Age next birthday :	12	-	32 points
	13	-	34
	14	-	36
	15	-	40
	16	-	44
	17	-	46

_____ 5

Tests may be taken over two or more days.

A candidate may not undertake more than one test from a group.

	Standard 6 points	First Class 8 points	Special 10 points
GROUP 1 100 metre sprint	16.5 sec	15.5 sec	12 sec
GROUP 2 200 metre sprint	28 sec	26 sec	22 sec
GROUP 3 800 metres 1500 metres	2 min 38 sec 5 min 55 sec	2 min 28 sec 5 min 15 sec	2 min 15 sec 4 min 50 sec
GROUP 4 Running high jump Running long jump	1.15 m 3.8 m	1.35 m 4.2 m	1.55m 4.8m
GROUP 5 Shot-put (5.4kg) Discus (under 17 size) Javelin (700 gm)	6 m 28 m 35 m	8 m 30 m 38 m	10 m 32 m 45 m
GROUP 6 100 metre hurdles (91 cm)	20 sec	18 sec	16 sec
GROUP 7 Road walk (5 km)	42 min	40 min	38 min
GROUP 8 Cross country run (3 km) Standard points only. No time set. Candidate not to stop running. NB The cross country must take place over open country and not along streets.			

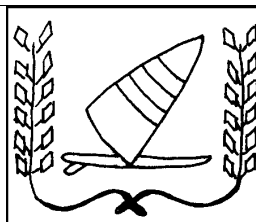


Date Passed _____ Signed _____

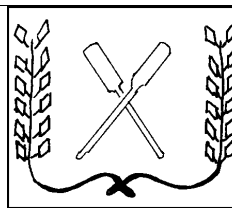
BACKWOODSMAN
INTEREST BADGE

NOTE: The general scheme for examining this badge is that a Scout - will be dropped off at a point and be required to hike a distance of at least 3 km cross country without using a map, compass or roads and without making enquiries, to arrive at a place, invisible from the start point, where the rest of the badge will be examined. He will carry a rucksack which must contain everything required to undertake the badge including his rations. The examination must be conducted as an adventure and should last for 45-48 hours including the time taken on the initial hike. Generally, the adventure will commence on an afternoon, include two nights in camp and end on the afternoon of the last day.

- | | |
|---|-----------------|
| 1. Have passed the Survival Scoutcraft Badge or complete all the requirements for it. | _____ <u>1</u> |
| 2. Take part in a survival adventure in an area unfamiliar to you which lasts for at least 45 hours. | _____ <u>2</u> |
| 3. During the adventure demonstrate the following backwoods skills: | |
| a) Shelters | |
| Describe various types of natural shelters you could utilise in wild country (woodlands, forests, veld, deserts etc) in order to protect yourself from the sun, cold, wind and rain. | _____ <u>3a</u> |
| b) Food | |
| i. Explain what resources are available as food in wild country. | |
| ii. Collect 3 different indigenous edible fruits and/or plants and prepare them as food. Explain how you would distinguish between edible and poisonous fruits and plants if you were uncertain. Discuss the dangers of eating unfamiliar fruits or plants. | |
| iii. Construct three different snares or traps to catch animals/birds/fish. Discuss the importance of using snares or traps only in a personal survival situation and also the importance of destroying snares and traps after use or when discovered in the veld/bush. | |
| iv. During the adventure cook all your meals from raw ingredients over an open fire without using utensils or aluminium foil. For one meal, clean and cook a chicken or other bird, or a fresh fish, or a small animal. | _____ <u>3b</u> |
| c) Water | |
| Discuss with the examiner where water can be found in wild country. | |
| Describe the methods of conserving water when in short supply. | |
| Make a solar still to collect water by condensation. | _____ <u>3c</u> |
| d) Navigation | |
| Cross 3 km of unknown country by day without using compass, roads or a map and without making enquiries. | |
| Cross 2 km of unknown country at night without using a compass, roads or a map and without making enquiries. | _____ <u>3d</u> |
| e) Hazards | |
| Demonstrate three of the following methods of signalling in order to attract attention if lost: Makeshift flags, signalling mirror, smoke, flashlight, ground to air signs, body signals, beacon fires or whistle signals. | _____ _____ |
| Recognise the most common venomous snakes in your area. Describe the precautions to avoid being bitten by snakes or stung by scorpions and the first aid treatment for snakebite. | |
| Discuss the precaution to take when in an area inhabited by animals such as predators, elephant, buffalo, rhinoceros, hippopotamus and baboons. | |
| Recognise the signs, and symptoms of bilharzia, Malaria, Tick Bite Fever and Typhoid Fever. Demonstrate a knowledge of the precautions to take to avoid these diseases and how to treat them. | _____ <u>3e</u> |

BOARDSAILING
INTEREST BADGE


	Date Passed	Signed
1. Have a basic understanding of the theory of sailing, with particular reference to the centre of effort and the centre of lateral resistance, and explain their significance to boardsailing.	_____	1 _____
2. Be able to identify all parts of a sailboard and its rigging.	_____	2 _____
3. Rig a sailboard and sail a course of at least 300 metres, at least one beat, one run, and one reach, on both port and starboard tacks.	_____	3 _____
4. Explain how to obtain suitable weather forecasts and understand how to use them.	_____	4 _____
5. Describe the international signal for help and explain when to use it.	_____	5 _____
6. Demonstrate and explain rigging modifications for varying weather conditions.	_____	6 _____
7. Discuss with the examiner the LY.R.U. rules and appendices, with S.A.Y.R.A. prescriptions, applicable to boardsailing and right-of-way for yachts and sailboards.	_____	7 _____
8. Sailing with an average wind strength of Force 3 on the Beaufort Wind Scale or more, complete a figure-of-eight course twice, sailing continuously. The radius of the circles to be less than 10 metres.	_____	8 _____
9. Perform the following manoeuvres on both port and starboard tacks: Step tack; Jump tack; Swing gybe; Stop (or Turn) gybe.	_____	9 _____

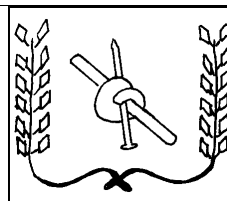

BOATMAN
INTEREST BADGE

Date Passed _____ Signed _____

- | | |
|---|------------------------|
| 1. Pass or have passed the requirements for the Boatmanship Scoutcraft Badge. | _____ <u>1</u> _____ |
| 2. Pass or have passed the requirements for the Swimmer Interest Badge or carry out all three of the following:
be able to swim at least 150 metres in shorts, shirt and socks;
be able to swim 250 metres in any style;
be able to remain afloat for at least three minutes (using clothing inflation). | _____ <u>2</u> _____ |
| 3. List the basic gear, including emergency equipment that should be carried in a pulling boat. | _____ <u>3</u> _____ |
| 4. Demonstrate how to load a pulling boat with stores and personnel, and how to trim the boat correctly. | _____ <u>4</u> _____ |
| 5. Name all the parts of a pulling boat, oars and rudder. | _____ <u>5</u> _____ |
| 6. Sketch three types of anchors, label the parts and discuss the advantages and disadvantages of each type. | _____ <u>6</u> _____ |
| 7. Explain how to use the Beaufort Wind Scale for determining safe boating conditions. | _____ <u>7</u> _____ |
| 8. Know the dangers of and the precautions to be taken against waterborne diseases (bilharzia, Typhoid, Cholera, etc). | _____ <u>8</u> _____ |
| 9. Demonstrate the correct procedure to follow for the resuscitation of the apparently drowned using a Rescue-Anne or similar model. | _____ <u>9</u> _____ |
| 10. Demonstrate the following splices:
Eye Splice
Short Splice
Dockers' Splice
Back Splice | _____ <u>10</u> _____ |
| 11. As a member of a boat's crew, demonstrate your ability to carry out the following:
As Stroke:
Keep an even stroke.
Change the pace in response to commands. | _____ <u>11a</u> _____ |
| b) As Crew: <ol style="list-style-type: none"> i. React promptly to commands. ii. Feather and trail oars correctly. iii. Pull an oar correctly and in time to stroke. iv. Have a working knowledge of all the commands. | _____ <u>11b</u> _____ |

BOATMAN - CONTINUED
INTEREST BADGE

11. c) As Bowman:
- i. Weigh and drop anchor correctly on command.
 - ii. Take depth readings.
 - iii. Throw a heaving line from Bowman position to land between two markers 2 metres apart from a distance of approximately 10 metres.
 - iv. Pick up a small object from the water. _____ 11c
- d) As Coxswain:
- i. Maintain boat discipline.
 - ii. Execute an emergency stop.
 - iii. Approach, make fast and cast off from a buoy.
 - iv. Pick up a small object from the water. _____ 11d
12. Plot your position on a chart and follow a compass course of at least six bearings. _____ 12
13. In addition to the requirements for the Boatmanship Scoutcraft Badge, log at least 7 hours of pulling as crew and 3 hours as coxswain.
- OR**
- Plan, or assist in planning, and complete a journey of not less than 6 hours in a gig. Keep a log of the journey. In both cases the log must be certified by your Troop Scouter. _____ 13

BOATSWAIN
INTEREST BADGE


Date Passed Signed

- | | | |
|--|-------|-----------|
| 1. Repair a small hole in a pulling boat OR patch a canvas or rubber hull OR repair a small hole in a fibre-glass hull. | _____ | <u>1</u> |
| 2. Make the following bends, hitches or splices: | | |
| a) Back splice, eye splice, short splice, longsplice, chain splice, and dockers splice | | |
| b) Marline spike hitch | | |
| c) Double carrick bend | | |
| d) Catspaw | | |
| e) Mouse a hook | | |
| f) Turk's head | | |
| g) Hunter's bend in synthetic rope | | |
| h) Jury masthead knot | | |
| i) Boatswain's lanyard incorporating at least six sennits (i.e. boatswain's weave, rolling boatswain, half hitches, diamond knot, grapevine, three corner crownings, flat sennit, turk's head) | | |
| j) Make an eye splice in a wire rope by either: | | |
| a) Making an eye splice and worm, parcel and serve it. | | |
| OR | | |
| b) Demonstrating how to make an eye using a crimping tool and know the importance of selecting the correct size of ferrule. | _____ | <u>2</u> |
| 3. Make a sailmaker's whipping and make off correctly the ends of a nylon or plastic rope using heat. | _____ | <u>3</u> |
| 4. Make a fender suitable for a pulling boat. | _____ | <u>4</u> |
| 5. Demonstrate how to take care of, clean and remove stains from sails. | _____ | <u>5</u> |
| 6. Identify 3 different synthetic fibres both in cloth and ropes. | _____ | <u>6</u> |
| 7. Take part in painting and varnishing a boat. | _____ | <u>7</u> |
| 8. Make the following pipes on a Bosun's Call: | | |
| a) The Still | | |
| b) Carry on | | |
| c) Pipe the Side | _____ | <u>8</u> |
| 9. Make and use a Bosun's chair. Explain the Aerial Runway Code. | _____ | <u>9</u> |
| 10. Overhaul and repair a set of standing rigging, in both wire and cordage, for an open sailing craft. | _____ | <u>10</u> |
| 11. Demonstrate the uses of purchase tackles, and rig a purchase tackle. | _____ | <u>11</u> |
| 12. Make a boat bag, using canvas, PVC or synthetic cloth. List the contents of the boat bag. | _____ | <u>12</u> |