

# Nautical Training Scheme



## Passport to Adventure

Name: \_\_\_\_\_

Group: \_\_\_\_\_



## Personal Details

Name:

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Address:

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Phone no:

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Email address:

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Date of birth:

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## Scouting Details

Scout group:

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Date invested:

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Positions held:

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## Introduction

The Nautical Training Scheme can be undertaken as an addition to the programme in each section. This training scheme is open to all members of Scouting Ireland wishing to further their maritime knowledge. The badges are progressive and lay out the steps that the scouting member will take on their journey through the nautical symbolic framework.

The Nautical Training Scheme provides insight and achievement in the following areas of nautical development;

Universal skills for water activities

- Water safety, water activities
- Navigation, communications
- Nautical history, traditions, community
- Boat maintenance, repairs, etc.
- Weather, tides



## Scouters' Responsibility

Water activities are an integral part of the Nautical Training Scheme and youth members should be encouraged to pursue one or more of the aquatic adventure skills. In pursuing these, scouts should be aware of the safety guidelines, in particular the wearing of PFDs (personal floatation devices), swimming abilities of the participants and qualifications of the persons in charge. In-depth and up to date information can be found at <https://my.scouts.ie/>

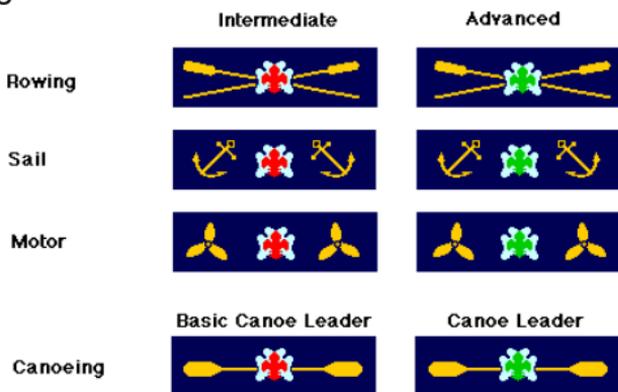
The more important information and resource documents are:

- 001 – Water Activities
- 003 – Personal Floatation Devices
- 005 – Boating Limits (Classification of Waters)
- 006 – Boating Charge Certificates
- 007 - Passage/Voyage Planning
- 010 – Canoeing Grades and Training



## Charge Certificate Awards

Charge Certificates - scouters undertaking responsibility for water activities should be aware of the rules of Scouting Ireland relating to these activities – the safety rules themselves and the requirements for appropriate qualifications for those supervising or in charge of the activities: swimming, sub aqua, surfing, canoeing, rowing, sailing, power boating.



### Instructors



### Coastal / Offshore



## Beaver Scouts

Beaver Scout  
Boat Badges



The Nautical Training Scheme offers all Beaver Scouts the chance to develop maritime skills individually, as a Lodge or as a Colony.

There are three progressive badges in the Nautical Training Scheme. These are referred to as the Boat Badges and are called Coracle, Currach and Skiff. The Beaver Scouts will begin by learning how to be safe around water as well as learning a little about the environment and how ships navigate.

Later they will learn about boats, and boating that may take place around their local area.

The Boat Badges can be used to support a theme in the programme adding a nautical flavour and possibly culminating in an activity in or on the water.

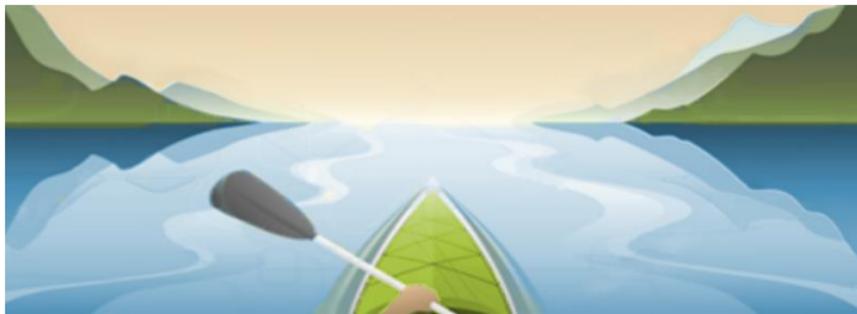
If you do not have access to boats in your own scout group, Scouting Ireland's Water Activities Centre in Killaloe or a commercial adventure centre will be able to help you to get afloat to complete the requirements.

The scheme offers plenty of opportunities for the Beaver Scouts to learn new things and put that to practical use in fun and challenging ways. You may also be able to link a visit to a life boat station or the

coast guard. Remember, the Coastguard, RNLI and some independent groups operate on the larger inland lakes during the summer season. The RNLI and Coastguard have developed several educational resources which can be downloaded from [www.rnli.org.uk](http://www.rnli.org.uk) or [www.ircg.ie](http://www.ircg.ie)

It is particularly important when planning Beaver Scout activities in or around water that Scouters are aware of the need for adequate supervision. Beaver Scouts participating in a dedicated nautical symbolic framework within their Section or Group are known as Beaver Sea Scouts.

|  <b>Coracle Badge</b> |   | <i>Initials</i>      | <i>Date</i>          |
|---|---|----------------------|----------------------|
| 1   | Know how to keep safe in the water          | <input type="text"/> | <input type="text"/> |
| 2   | Find out what a chart is                    | <input type="text"/> | <input type="text"/> |
| 3   | Find out about a local beach, lake or river | <input type="text"/> | <input type="text"/> |





## Currach Badge

- |   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| 1 | Tie four basic knots  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Keep safe on the water and know what the buddy system is            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Understand some nautical terms                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Visit a lifeboat station or other rescue service. <b>Date</b> _____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Find out how weather affects you                                    | <input type="checkbox"/> | <input type="checkbox"/> |



## Skiff Badge

- |   |   |                          |                          |
|---|---|--------------------------|--------------------------|
| 1 | Find out what knot we use to moor a boat  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Find out what buoyancy aids and lifejackets are and what they do                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | What special clothes do we wear when going on the water?                              | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Find north using a compass  | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Understand why we care for a boat, help with maintenance on a boat. <b>Date</b> _____ | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | Find the weather forecast for your area   | <input type="checkbox"/> | <input type="checkbox"/> |

## Cub Scouts

Cub Scout  
Boatman Badges



The Nautical Training Scheme offers all Cub Scouts the chance to develop maritime skills. The Cub Scouts, as a Six or indeed individually, can identify a part of the Boatman Badges to take them through the next step of their journey.

The Badges are progressive and are divided into three sections, Bronze, Silver and Gold.

If, as a Beaver Scout they have completed the Boat Badges, they will have learned the basics of safety on the water. This message of safety should permeate their achievement of the Boatman Badges with a development of skills around several areas under the headings of:

- Skills
- Safety
- Navigation
- The Sea
- Maintenance
- Communication
- Water Activities



Activity planning can be focused on the water. For example, the learning of and experiencing of rope work, what to wear afloat, some knowledge of the parts of a boat and how to recognise an admiralty chart.

The Cub Scouts could also be offered a chance to engage with a scout group who would be in the process of maintaining and repairing their boats for the boating season.

The RNLI and the Coastguard offer some resources around safety on the water and safety at sea and are always willing to offer their services to work with young people in order increase their knowledge around this area. They also offer some exciting tours of their premises and craft. The Sea Scout handbook and the Sea Scout Leaders handbook offer user – friendly technical information to the Scouter.

Outdoor adventure centres around the country and some of the Scouting Ireland campsites e.g. Killaloe, offer resources and instructors to help the Cub Scouts achieve their Boatman Badges and most especially to participate in the actual water activities.

Cub Scouts participating in a dedicated nautical symbolic framework within their Section or Group are known as Cub Sea Scouts.

**Bronze Boatman Badge**

- |   |  |                          |
|---|--|--------------------------|
| 1 | Demonstrate and explain the uses of: <ul style="list-style-type: none"><li>• Reef Knot</li><li>• Round Turn and two Half Hitches</li><li>• Figure of Eight</li></ul>   | <input type="checkbox"/> |
| 2 | <ul style="list-style-type: none"><li>• Know the basic safety rules for swimming</li><li>• Commit to improving your swimming ability</li></ul>   | <input type="checkbox"/> |
| 3 | Wear the correct clothing and safety equipment for a half day water activity<br><b>Date</b> _____  | <input type="checkbox"/> |
| 4 | Using a compass demonstrate: <ul style="list-style-type: none"><li>• Finding Magnetic North</li><li>• Set a map or chart</li><li>• Identify a position on a map or chart using a grid reference or coordinates</li></ul> | <input type="checkbox"/> |
| 5 | <ul style="list-style-type: none"><li>• Find out what an anchor is</li><li>• Help to anchor a small boat</li></ul> <b>Date</b> _____   | <input type="checkbox"/> |
| 6 | Discover what a mast and rudder are <ul style="list-style-type: none"><li>• Find out about different repair projects being carried out by your Scouts</li></ul>  | <input type="checkbox"/> |



|    |   |                          |
|----|---|--------------------------|
| 7  | Discover what the tide is<br>• Be aware of the dangers posed by tidal currents when boating | <input type="checkbox"/> |
| 8  | • Take part in two half day water activities<br>Date _____ Date _____                       | <input type="checkbox"/> |
| 9  | Understand how to show respect for various flags  | <input type="checkbox"/> |
| 10 | Know the difference between an outboard and an inboard engine                               | <input type="checkbox"/> |

**Silver Boatman Badge**

|   |   |                          |
|---|---|--------------------------|
| 1 | Demonstrate and explain the uses of:<br>• Sheet Bend<br>• Fisherman's Bend  | <input type="checkbox"/> |
| 2 | Demonstrate how to:<br>• Put on a life-jacket or buoyancy aid<br>• Discuss when to use a buoyancy aid or a life jacket<br>• Be able to enter and exit a craft correctly | <input type="checkbox"/> |
| 3 | Appreciate the differences between:<br>True North – Magnetic North – Grid North   | <input type="checkbox"/> |



|    |   |  |
|----|---|--|
| 4  | Using a compass find true north by means of magnetic variation  | <input type="checkbox"/>                             |
| 5  | <ul style="list-style-type: none"><li>• Discover two types of anchor used in Sea Scouting</li><li>• Be able to choose an appropriate anchor for a given area</li></ul>  | <input type="checkbox"/>                             |
| 6  | <ul style="list-style-type: none"><li>• Be familiar with the main parts of a rowing or sailing boat</li><li>• Identify the standard parts, fittings and equipment of the craft</li></ul>                      | <input type="checkbox"/>                             |
| 7  | <ul style="list-style-type: none"><li>• Participate in rigging and de-rigging of the craft on at least two occasions</li></ul> <p>Date _____ Date _____</p>   | <input type="checkbox"/>                             |
| 8  | <ul style="list-style-type: none"><li>• Appreciate why it can be difficult to signal for help when in distress on the water</li><li>• Discover some basic signals used in an emergency on the water</li></ul> | <input type="checkbox"/>                             |
| 9  | <ul style="list-style-type: none"><li>• Take part in four half day water activities</li></ul> <p>Date _____ Date _____</p> <p>Date _____ Date _____</p>   | <input type="checkbox"/><br><input type="checkbox"/> |
| 10 | <ul style="list-style-type: none"><li>• Know the difference between at least two types of flags</li></ul>   | <input type="checkbox"/>                             |



- 11 • Understand the practical differences arising from using an inboard or outboard engine



## Gold Boatman Badge

- 1 • Coil a rope correctly  
• Heave a line from a boat or a raft
- 2 • Have completed the Pioneering Adventure Skill to Stage two
- 3 • List the correct personal clothing and safety equipment for a half days water activity
- 4 Participate in the following safety exercises during calm conditions  
• Falling out of the craft backwards  
• Be able to get back into the craft from the water **Date** \_\_\_\_\_
- 5 • Show how contour lines relate to height and shape of the land  
Using a compass show how to:  
• Take a grid and magnetic bearing  
• Convert a grid bearing to a magnetic bearing



- 6 • Help an older Scout to tie up a boat to a mooring buoy  
• Help to tie a boat alongside a jetty or a quay. **Date** \_\_\_\_\_

- 7 • Know the main safety points relating to a particular craft  
• Discover what is meant by the terms: belay – aloft – aft – astern  
• Discover what is meant by:  
Hull – Galley – Deck – Alongside

- 8 • Appreciate the importance of allowing for tides when tying up to a quay or jetty

- 9 • Appreciate the importance of weather forecasts  
• Discover the water cycle and other forces affecting the weather in your local area  
• Get a weather forecast before going on at least two boating activities

- 10 • Discover the difference between an ensign and a National flag

- 11 Participate on at least four occasions with the maintenance or repair of Group equipment

**Date** \_\_\_\_\_ **Date** \_\_\_\_\_

**Date** \_\_\_\_\_ **Date** \_\_\_\_\_

## Sea Scouts / Scouts

Scouts  
Helmsman Badges



The Nautical Training scheme offers all Scouts the chance to develop maritime skills with The Helmsman Badges. These are divided into three levels, and follow on from the Boatman Badges, achievable in the Cub Scout Section. The Scout Helmsman Badges are based around eight areas of competency.

- Core skills for water activities
- Water Safety
- Water Activities
- Navigation
- Communications
- Nautical heritage
- Boat Maintenance, repairs
- Weather and Tides

The Scout chooses to do the Helmsman Badges and builds on the skills and knowledge learnt in the previous sections if applicable, or can commence their journey gaining knowledge in all things nautical and planning around water activities.

Scouts participating in a dedicated nautical symbolic framework within their Section or Group are known as Sea Scouts and Patrol Leaders as Watch Leaders.



If the group do not have direct access to boats etc., Scouting Ireland's Killaloe and Lough Dan sites offer training and activities, and the commercial outdoor adventure centres offer excellent water activities on a seasonal basis.



### Bronze Helmsman Badge

- |   |  |                          |
|---|--|--------------------------|
| 1 | Discuss your understanding and commitment to the Scout Promise and Law with your Scouter | <input type="checkbox"/> |
| 2 | Demonstrate and know the uses of the following: i. Bowline ii. Sheer lashing             | <input type="checkbox"/> |
| 3 | Know the different types of anchors and where they are best used                         | <input type="checkbox"/> |
| 4 | Explain the importance of the care and use of a lifejacket or buoyancy aid               | <input type="checkbox"/> |
| 5 | List the correct personal clothing and equipment for a day's water activity              | <input type="checkbox"/> |
| 6 | Identify equipment to be carried in a small craft for a day's water activity             | <input type="checkbox"/> |



|    |   |                          |
|----|---|--------------------------|
| 7  | <p>Coastal Navigation</p> <ul style="list-style-type: none"> <li>• Understand longitude and latitude, and identify a position</li> <li>• Explain the main features and symbols on a chart</li> <li>• Identify the main terms used to denote direction from your boat</li> </ul> | <input type="checkbox"/> |
| 8  | <p>Inland Waterway Navigation</p> <ul style="list-style-type: none"> <li>• Explain what is meant by the scale of an Ordnance Survey map and show how to measure distances</li> <li>• Explain the National Grid system and use it to identify a position</li> </ul>              | <input type="checkbox"/> |
| 9  | <p>Discover the basic rules regarding rights of way for the crafts used by your group</p>   | <input type="checkbox"/> |
| 10 | <p>Discover the most common danger signals in use</p>   | <input type="checkbox"/> |
| 11 | <ul style="list-style-type: none"> <li>• Discover what an “Ensign” is and where it is flown</li> <li>• Show how to raise and lower a National Flag or Ensign</li> <li>• Show how to carry a National Flag or Ensign</li> </ul>  | <input type="checkbox"/> |
| 12 | <p>Discover what is meant by the following terms: Amidship – Bridge - Aft</p>   | <input type="checkbox"/> |



|   |                          |
|---|--------------------------|
| 13 Consider the different ways that you can support your local rescue service   | <input type="checkbox"/> |
| 14 Participate with your Watch or group on at least three occasions with the repair or maintenance of group equipment   | <input type="checkbox"/> |
| 15 Understand what the following terms refer to: Thwart – Tiller - Transom  | <input type="checkbox"/> |
| 16 Be aware of the basic principles of a marine engine  | <input type="checkbox"/> |
| 17 On at least two occasions get a weather forecast before a water activity: <ul style="list-style-type: none"><li>• Which forecast gives the most information for the area?</li><li>• Which parts of forecasts are most important for each activity?</li><li>• Was the forecast right and did the weather affect the activity?</li></ul> | <input type="checkbox"/> |
| 18 Obtain information on tide times for your normal boating waters  | <input type="checkbox"/> |
| 19 Appreciate how local factors can have considerable effect on weather and tides   | <input type="checkbox"/> |



## Silver Helmsman Badge

- |   |   |                          |
|---|---|--------------------------|
| 1 | Plan at least two Watch activities<br>Date _____ Date _____   | <input type="checkbox"/> |
| 2 | Demonstrate and know the uses of the Following knots:<br>• Double sheet bend • Rolling hitch  | <input type="checkbox"/> |
| 3 | Understand the use of a sea anchor and demonstrate how to make one out of the equipment available on a group craft  | <input type="checkbox"/> |
| 4 | Show how to check that a lifejacket or buoyancy aid is fit to use (buckles, straps, whistle, etc)   | <input type="checkbox"/> |
| 5 | Understand the purpose of the “man overboard” drill and rescue techniques   | <input type="checkbox"/> |
| 6 | Appreciate the basic care of the craft and all its equipment  | <input type="checkbox"/> |
| 7 | Participate in the launching and retrieval of your craft. Date _____  | <input type="checkbox"/> |
| 8 | Coastal Navigation<br>• Show how to measure distance on a chart<br>• Plot a true course from a compass rose<br>• Describe Cardinal / Half Cardinal points | <input type="checkbox"/> |



- 9 Inland Waterway Navigation
- Identify the main symbols on an OS map and on an Inland Waterway chart including canals, locks and weirs
  - Describe what Cardinal and Half Cardinal points are
- 10 Explain the following terms:  
Bearing - Not under command - Safe speed - Overtaking
- 11 Demonstrate distress signals by using only oneself and items found on your Scout uniform
- 12 Explain how to care for and demonstrate how to fold a National Flag or Ensign
- 13 Discover a maritime tradition or history  
For example: Boatswain's Call - The watch system on ships and the sounding of bells - Keel hauling - Swinging a cat or lead - Local tradition / history - Lead line
- 14 Discover what is meant by the following terms: Forward – Bows - Forecastle (Foc'sle)
- 15 Plan a visit by your Watch or group to your local lifeboat station or other local rescue service and discover how they benefit your community. **Date** \_\_\_\_\_



|  |                      |
|--|----------------------|
| <p>16 Participate with your Watch or group on at least three occasions with the maintenance or repair of group equipment. Take a leading role in one of these. <b>Date</b> _____</p> | <input type="text"/> |
| <p><b>Date</b> _____ <b>Date</b> _____</p>   |                      |
| <p>17 Understand what the following terms refer to:<br/>Keel – Centreboard – Strakes - Rudder</p>  | <input type="text"/> |
| <p>18 Demonstrate an awareness of how a Marine engine works and some basic maintenance procedures</p>  | <input type="text"/> |
| <p>19 Appreciate the effects weather has on the waters in your area</p>  | <input type="text"/> |
| <p>20 Understand the meaning of the terms<br/>Windward and Leeward</p>   | <input type="text"/> |
| <p>21 Obtain some information from local sources (local fishermen, your Scouters, etc) regarding your local boating area, and how it is affected by tides and weather conditions</p> | <input type="text"/> |



## Gold Helmsman Badge

- |   |  |                          |
|---|--|--------------------------|
| 1 | Explain the function of the Watch Leaders Council  | <input type="checkbox"/> |
| 2 | Explain the Scout Promise and Law to younger Scouts  | <input type="checkbox"/> |
| 3 | Demonstrate and know the uses of the following: Back splice  | <input type="checkbox"/> |
| 4 | Whip the end of a rope   | <input type="checkbox"/> |
| 5 | Explain anchoring with reference to the anchors and craft used by your group: <ul style="list-style-type: none"><li>• Choice of anchorage - length of cable - swinging circle - dragging, etc</li><li>• Identify the parts of at least one anchor that your group regularly uses</li></ul> | <input type="checkbox"/> |
| 6 | Describe the main safety points of any particular craft when on a water activity   | <input type="checkbox"/> |
| 7 | Participate in a <i>man overboard</i> drill using rescue techniques<br>Date _____  | <input type="checkbox"/> |
| 8 | Show younger Scouts how to rig and de-rig the craft correctly  | <input type="checkbox"/> |



9 Participate in at least six half day and one full day (if your waters allow) water activities with your group

Date \_\_\_\_\_ Date \_\_\_\_\_

Date \_\_\_\_\_ Date \_\_\_\_\_

Date \_\_\_\_\_ Date \_\_\_\_\_

Date \_\_\_\_\_

10 Coastal Navigation

In the steering and sailing rules, explain the general rules for maneuvering the following:

- A power vessel • A sailing vessel • In a narrow channel

In the steering and sailing rules, explain the meaning of:

- Risk of collision • Not under command
- Restricted maneuverability

11 Inland Waterway Navigation

- Explain the rules relating to maneuvering and right of way on Inland Waterways.

- Explain how a lock works, both rising and falling

12 Explain right of way rules for:

- Powerboats • Sailing boats
- Large ships in a restricted channel

13 Demonstrate the use of distress signals in a simulated rescue situation



|   |                          |
|---|--------------------------|
| 14 Be introduced to VHF and GMDSS systems   | <input type="checkbox"/> |
| 15 Appreciate what is meant by the following flags, where they are flown and for what duration on a nautical flagpole or on a vessel: Ensign - National Flag - Scout pennant - Group flag -. Duty Watch flag or pennant - Courtesy flag - Signal flag   | <input type="checkbox"/> |
| 16 Discover what is meant by the following terms:<br>• Under way • Freeboard • Quarterdeck  | <input type="checkbox"/> |
| 17 Implement a simple voluntary project that will benefit your local maritime environment or community  | <input type="checkbox"/> |
| 18 Participate with your Watch or group in the completion of at least two of the following:<br>• Check, clean and dry lifejackets, buoyancy aids or some of a craft's equipment<br>• Repair a small crack or hole on a craft<br>• Scrape, sand and paint as required<br>• Whip, splice or similar the rigging of a craft as required<br>• Carry out some routine maintenance to a craft (e.g.: replace spark plugs on an outboard, wash down sails, rigging, etc)<br>• (Scouter's choice) | <input type="checkbox"/> |



19 Understand what the following terms refer to: Oarlock – Spur - Ribs

20 Participate in carrying out a basic service on a marine engine

21 Recognise how the wind (from Beaufort Force 0 to force 6) effects conditions on the sea and on the land. Identify the Beaufort force of the wind on any given day just by looking at the sea conditions

22 Describe briefly how tides are formed and understand the meaning of the following terms: Spring tide - Neap tide – Flood – Ebb - High water - Low water

23 Apply your local knowledge when been discussing with your Scouter whether the weather forecast will affect an activity that has planned



## Ventures Scouts

Venture Scout  
Navigator Badges



The Nautical Training Scheme for Venture Scouts is called the Navigator Badges and it allows the Venture Scouts to develop their maritime skills.

It follows on from the Scout Section but can be completed by a Venture Scout who was not in the Scout Section, or did not pursue the Helmsman Badges at the time.

There are four stages to be completed, each stage being centered on eight areas of competency;

- Core Skills
- Water Safety
- Technical Skills
- Navigation and Chartwork
- Signaling
- Nautical Heritage
- Maintenance
- Weather and Tides

The scheme is designed to work with the programme cycle in the Venture Scout Section and may be undertaken by an individual Venture Scout, by a Crew, or indeed by the entire Venture Scout Unit.



Venture Scouts participating in a dedicated nautical symbolic framework within their Section or Group are known as Venture Sea Scouts.

To meet the requirements, a Venture Scout must get afloat several times. This may be achieved using equipment belonging to the Scout Group, on loan from a member or parent, through the SI Water Activities Centre in Killaloe or a commercial adventure centre.



### Bronze Navigator Badge

- 1 Demonstrate how the Scout Promise and Law provide a positive influence on you in your life
- 2 Explain the other challenges available in Scouting to other members of your Group, i.e.: Charge certificates, Adventure Skills, Special Interest Badges, etc
- 3 Demonstrate and know the uses of the following:
  - Diagonal lashing • Short splice
- 4 Possess a knowledge of moorings - how they may be made up and laid



|    |  |                          |
|----|--|--------------------------|
| 5  | Describe clearly under what conditions should flares be used . Be aware of the relevant safety rules for boating in your locality    | <input type="checkbox"/> |
| 6  | Instruct younger Scouts on the following:<br>Correct personal clothing and safety equipment for boating                              | <input type="checkbox"/> |
| 7  | Instruct younger Scouts on the following:<br>• Correct boat equipment for an activity<br>• Materials used in small boat construction | <input type="checkbox"/> |
| 8  | Understand how the compass works and recognise the different types   | <input type="checkbox"/> |
| 9  | Explain magnetic deviation and how it can be minimised, eliminated or allowed for on the boats used by your group                    | <input type="checkbox"/> |
| 10 | Explain the following terms:<br>• Restricted maneuverability<br>• Look out<br>• Action to avoid collision                            | <input type="checkbox"/> |
| 11 | Know the different distress signals and explain how to use them correctly  | <input type="checkbox"/> |
| 12 | Be aware of the conventions and etiquette involved with communication by VHF radio   | <input type="checkbox"/> |



|  |                          |
|--|--------------------------|
| <p>13 Discover how time was recorded on ships before the clock was invented<br/>Improve your knowledge of flag etiquette</p>   | <input type="checkbox"/> |
| <p>14 Discover what is meant by the following terms: Bulkhead - Beam - Length<br/>Waterline - Superstructure</p>   | <input type="checkbox"/> |
| <p>15 Understand the possible dangers of Weil's disease and other waterborne diseases affecting those who participate in water activities</p>                                | <input type="checkbox"/> |
| <p>16 Take a leading part in maintenance/repair of group equipment. The time commitment should be determined by you and the Watch Leader's Council<br/><b>Date</b> _____</p> | <input type="checkbox"/> |
| <p>17 Understand what the following terms refer to: Gunwale – Gudgeon - Pintle</p>   | <input type="checkbox"/> |
| <p>18 List the different maintenance procedures needed by an engine used by your group, and carry out one of these tasks</p>   | <input type="checkbox"/> |
| <p>19 Appreciate how clouds are formed</p>   | <input type="checkbox"/> |
| <p>20 Describe what <i>tidal currents</i> mean</p>   | <input type="checkbox"/> |
| <p>21 Be aware of the main dangers in local waters used by your group</p>  | <input type="checkbox"/> |



## Silver Navigator Badge

- 1 Prepare a poster presentation, poster badge collection, photo gallery, PowerPoint presentation, website or similar to show the local or worldwide nature of Scouting
- 2 Demonstrate and know the uses of the following: Eye splice - Long splice - Emergency Jury-rig knot
- 3 Know how to deal with complications while anchoring - dragging, fouling, etc
- 4 Know the number and type of flares that should be carried by a Scout boat for different trips (i.e.: Half day exercise, day expedition, expedition, etc.)
- 5 Instruct younger Scouts on the following:  
What to do in a capsized situation
- 6 Instruct younger Scouts on the following:
  - Types of construction for small boats
  - Standard parts, fittings and equipment
  - How to steer a compass course in a craft used by your group



|    |  |                          |
|----|--|--------------------------|
| 7  | <p>Coastal Navigation</p> <ul style="list-style-type: none"> <li>• Plot a bearing on a chart, allowing for magnetic variation and deviation</li> <li>• Explain the terms nautical mile, knot and charted depth</li> </ul>  | <input type="checkbox"/> |
| 8  | <p>Inland Waterway Navigation</p> <ul style="list-style-type: none"> <li>• Explain the navigation marking system used on the Shannon Navigation, Erne Navigation, Barrow Navigation or other similar navigation</li> <li>• Appreciate the possible dangers of sudden weather changes on big lakes</li> </ul> | <input type="checkbox"/> |
| 9  | <p>Know the fog signals made by:</p> <ul style="list-style-type: none"> <li>• Power vessel making way</li> <li>• Power vessel not making way</li> <li>• Sailing vessel under way</li> <li>• A vessel at anchor</li> </ul>  | <input type="checkbox"/> |
| 10 | <p>Appreciate the importance of light characteristics of navigation marks in relation to colour, type (fixed, flashing, occulting or iso-phase) and rhythm, and understand the use of sector lights</p>  | <input type="checkbox"/> |
| 11 | <p>Describe what action should be taken when emergency flares are seen<br/>Demonstrate the fog signal that should be made by a typical Scout boat</p>  | <input type="checkbox"/> |



|  |                          |
|--|--------------------------|
| 12 Be able to operate a VHF radio, and be able to correctly send a message over it   | <input type="checkbox"/> |
| 13 Discover a maritime tradition or history<br>For example: Boatswain's Call - The watch system on ships and the sounding of bells - Keel hauling - Swinging a cat or lead - Local tradition / history - Lead line | <input type="checkbox"/> |
| 14 Discover what is meant by the following terms: Length Overall – Draught - Fore and Aft - Deck head  | <input type="checkbox"/> |
| 15 Appreciate the dangers and problems caused by dumping in rivers, canals, lakes, coastal areas, etc  | <input type="checkbox"/> |
| 16 Instruct and lead younger Scouts in maintenance work. <b>Date</b> _____   | <input type="checkbox"/> |
| 17 Understand what the following terms refer to: Heel – Stem – Breasthook - Knee   | <input type="checkbox"/> |
| 18 Be able to diagnose simple faults with an engine used by your group   | <input type="checkbox"/> |
| 19 Know the main cloud types and the weather often associated with each  | <input type="checkbox"/> |
| 20 Describe the causes of rain, fog, sea/land breezes, and wind  | <input type="checkbox"/> |



|  |                          |
|--|--------------------------|
| 21 Explain how waves are formed and what factors determine the size of waves | <input type="checkbox"/> |
| 22 Pass on knowledge of local hazards to younger Scouts in your Group        | <input type="checkbox"/> |



### Gold Navigator Badge

|   |                          |
|---|--------------------------|
| <p>1 Plan and lead at least three Watch activities, and at least one group activity</p> <p>Date _____ Date _____</p> <p>Date _____ Date _____</p>   | <input type="checkbox"/> |
| <p>2 Understand the different types of rope construction and the factors to take into account before choosing a rope. Explain the best uses for Nylon, Terylene and Polypropylene ropes</p>       | <input type="checkbox"/> |
| <p>3 Possess a good knowledge of tying up alongside - use of bow and stern lines, breast ropes, springs, different tidal and wind conditions, etc</p>   | <input type="checkbox"/> |
| <p>4 Understand the factors contributing to the Scout classification of waters in your area. Be able to decide whether an activity is safe, considering all the factors which may pose a risk</p> | <input type="checkbox"/> |



|   |  |                      |
|---|--|----------------------|
| 5 | Take part in simulated emergency in which your sea survival skills will be challenged. Date _____  | <input type="text"/> |
| 6 | Participate in at least ten half day and two one day (if your waters allow) water activities with your group.  |                      |
|   | Date _____ Date _____  | <input type="text"/> |
| 7 | <p>Coastal Navigation</p> <ul style="list-style-type: none"> <li>• Be able to follow a course which you have already plotted on a relevant chart</li> <li>• Be aware of the necessary precautions you must carry out on your own craft to assist navigation by other vessels (navigation lights, etc)</li> </ul> | <input type="text"/> |
| 8 | <p>Inland Waterway Navigation</p> <p>Understand how canal lock sluices operate and appreciate the problems that can be caused if they are not operated properly</p>  | <input type="text"/> |
| 9 | <p>Be familiar with the main components of the International Regulations for Preventing Collisions at Sea</p>  | <input type="text"/> |



|   |                          |
|---|--------------------------|
| <p>10 Recognise all the various marks in the IALA buoyage system: Cardinal – Lateral<br/>- Safe water - Isolated danger -<br/>Special marks - Temporary wreck marks</p>   | <input type="checkbox"/> |
| <p>11 Participate in a demonstration of emergency signaling procedures (e.g. flares) run by a local rescue service (RNLI, coastguard, etc)</p>  | <input type="checkbox"/> |
| <p>12 Know how to operate an EPIRB and the DSC function of a VHF radio in an emergency</p>  | <input type="checkbox"/> |
| <p>13 Discover a maritime tradition or history<br/>For example: Boatswain's Call - The watch system on ships and the sounding of bells - Keel hauling - Swinging a cat or lead - Local tradition / history - Lead line</p>  | <input type="checkbox"/> |
| <p>14 Discover what is meant by the following:<br/>Stem - Midship line – Abreast - Abeam</p>  | <input type="checkbox"/> |
| <p>15 Lead your Watch or group in an environmental survey of 1 km of your local area (coastline, riverbank, roadway, forest track, etc) and record your results, using drawings (or photographs) and tables where possible. Try to rectify at least one of the problems found in your survey. <b>Date</b> _____</p> | <input type="checkbox"/> |



|  |                          |
|--|--------------------------|
| 16 Know how to care for ropes during their use and when in storage   | <input type="checkbox"/> |
| 17 Check a boat for its seaworthiness, list repairs or improvements required and action this list  | <input type="checkbox"/> |
| 18 Understand what the following terms refer to: Sheer strake - Garboard strake - Yoke   | <input type="checkbox"/> |
| 19 List ways to implement the following on a power boat: Fire prevention - Fire fighting   | <input type="checkbox"/> |
| 20 Instruct younger Scouts on how to get forecasts for your boating or hiking area, and explain which parts are most important for each type of activity.<br>Recognise some natural weather signs  | <input type="checkbox"/> |
| 21 What tidal effect can occur under the following conditions:<br>• Areas of shallow water in moderate wind • Current and wind in the same direction • Current and wind in the opposite directions • Any local tidal problems in your area | <input type="checkbox"/> |
| 22 Have a detailed knowledge of the area covered by your Group's <i>restricted waters</i> , with particular reference to any local hazards or dangers, and any changes to be expected in different weather conditions                      | <input type="checkbox"/> |

## Rover Scouts



The Nautical Training Scheme for Rover Scouts is called the Mariner Awards and follows on from Venture Scout Navigator Badges. However, someone who was not in Venture Scouts or did not follow the Nautical Training Scheme may still be able to take it on.

There is a very close fit between the Nautical Training Scheme and the Rover Scout Personal Progressive Scheme (the Rover Scout Challenge).

There are two stages in the Mariner Awards. The first requires the Rover Scout to participate in an expedition afloat, in a number of events, undertake an environmental project and begin working towards a qualification. The second requires the Rover Scout to take a leadership role in expeditions, to be pro-active in tackling a problem identified in the project, to participate in a number of events and to complete the qualification started in the first stage.

Rover Scouts participating in a dedicated nautical symbolic framework within their Section or Group are known as Rover Sea Scouts.



## Bronze Mariner Badge

- 1 Take part in a nautical or waterborne expedition of at least 48 hours duration. This may be by rowing boat, sailing boat, power driven boat or kayaks/ canoes (total distance not less than 40 kms), or by raft (total distance not less than 20 km). **Date** \_\_\_\_\_
- 2 Take part in at least one event from the following list, or events of a similar character, agreed in consultation with your Scouter:  
Fry Cup - Master Mariner competition - Wood-Latimer skiff race - Scout Liffey canoe race - Albatross Regatta BP18 race - Bass Shield swimming race - Scout Triathlon - National Raft Race - Southeast Provincial Splashdown - Northeast Provincial Splashdown  
**Date** \_\_\_\_\_
- 3 Take part in a considerable environmental project organised by another member of your group in the form of an activity, research or survey relevant to your local area or an area in which your group does most of its Scouting. This could be a lake, river, beach or coastline with which you are familiar. **Date** \_\_\_\_\_



- 4 Start working towards at least one of the following which you have not already completed, or other qualifications or courses of a similar character, agreed in consultation with your Scouter:
- Intermediate Charge Cert. (Oars)
  - Intermediate Charge Cert. (Sail)
  - ISA dinghy sailing level 3
  - Intermediate Charge Cert. (Power)
  - ISA powerboat level 2
  - ISA powerboat level 3
  - Restricted Canoe Leader Cert.
  - ISA Competent Crew Cert.
  - Short Range Radio Operator's Cert.
  - Scouting Ireland or ISA introductory navigation course
  - ISA Yacht Safety Awareness Course
  - Basic Sea Survival Course
  - IWSA or RLSS Lifesaving Award
- 





## Silver Mariner Badge

- 1 Plan and lead a nautical or waterborne expedition of at least 48 hours duration. This may be by rowing boat, sailing boat, power driven boat or kayaks/canoes (total distance not less than 40 kms), or by raft (total distance not less than 20 kms). **Date** \_\_\_\_\_

- 2 Take part in at least one event from the following list which you have not participated in before, or events of a similar character, agreed in consultation with your Scouter:

Fry Cup - Master Mariner competition -  
Wood-Latimer skiff race - Scout Liffey  
canoe race - Albatross Regatta BP18  
race – Bass Shield swimming race -  
Scout Triathlon - National Raft Race -  
Southeast Provincial Splashdown –  
Northeast Provincial Splashdown

**Date** \_\_\_\_\_

- 3 Undertake a considerable environmental project in the form of an activity, research or survey relevant to your local area or an area in which your group does most of its Scouting. This could be a lake, river, beach or coastline with which you are familiar

**Date** \_\_\_\_\_



4 Complete the qualification started in the bronze badge, and start working towards at least one of the following which you have not already completed, or other qualifications or courses of a similar character, agreed in consultation with your Scouter:

- Intermediate Charge Cert. (Oars)
- Intermediate Charge Cert. (Sail)
- ISA dinghy sailing level 3
- Intermediate Charge Cert. (Power)
- ISA powerboat level 2
- ISA powerboat level 3
- Restricted Canoe Leader Cert.
- ISA Competent Crew Cert.
- Short Range Radio Operator's Cert.
- Scouting Ireland or ISA introductory navigation course
- ISA Yacht Safety Awareness Course
- Basic Sea Survival Course
- IWSA or RLSS Lifesaving Award



**Gold Mariner Badge**

- 1 1. Plan and lead a nautical or waterborne expedition of at least 72 hours duration. This may be by rowing boat, sailing boat, power driven boat or kayaks/canoes (total distance not less than 60 kms), or by raft (total distance not less than 30 kms)

Date \_\_\_\_\_

- 2 Take part in at least two different events from the following list which you have not participated in before, or events of a similar character, agreed in consultation with your Scouter:

- 2 Fry Cup - Master Mariner competition -  
 . Wood-Latimer skiff race - Scout Liffey  
 . canoe race - Albatross Regatta BP18  
 . race - Bass Shield swimming race -  
 Scout Triathlon - National Raft Race -  
 Southeast Provincial Splashdown -  
 Northeast Provincial Splashdown

Date \_\_\_\_\_

- 3 Identify the main issues from the project you undertook for the silver badge, and attempt to rectify or address any problems identified by you

Date \_\_\_\_\_



4 Complete the qualification started in the silver badge, and gain at least one of the following which you have not already completed, or other qualifications or courses of a similar character, agreed in consultation with your Scouter:

- Intermediate Charge Cert. (Oars)
- Intermediate Charge Cert. (Sail)
- ISA dinghy sailing level 3
- Intermediate Charge Cert. (Power)
- ISA powerboat level 2
- ISA powerboat level 3
- Restricted Canoe Leader Cert.
- ISA Competent Crew Cert.
- Short Range Radio Operator's Cert.
- Scouting Ireland or ISA introductory navigation course
- ISA Yacht Safety Awareness Course
- Basic Sea Survival Course
- IWSA or RLSS Lifesaving Award







“There is nothing  
- absolutely nothing –  
half so much worth doing  
as simply messing about  
in boats.”



1<sup>st</sup> Wexford (New Ross) Sea Scouts