

# Scout Nautical Training Scheme



Helmsman Badges

[Click here for Nautical Training Scheme Overview Document](#)

## Sea Scout

	Bronze Helmsman badge	Silver Helmsman badge	Gold Helmsman badge
<b>Ropework</b>	<ol style="list-style-type: none"> <li>Demonstrate and know the uses of the following:                             <ol style="list-style-type: none"> <li>Bowline</li> <li>Sheer lashing</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>Demonstrate and know the uses of the following:                             <ol style="list-style-type: none"> <li>Double sheet bend</li> <li>Rolling hitch</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>Demonstrate and know the uses of the following:                             <ol style="list-style-type: none"> <li>Back splice</li> <li>Whip the end of a rope</li> </ol> </li> </ol>
<b>Anchorage</b>	<ol style="list-style-type: none"> <li>Know the different types of anchors and where they are best used</li> </ol>	<ol style="list-style-type: none"> <li>Understand the use of a sea anchor and demonstrate how to make one out of the equipment available on a Troop craft</li> </ol>	<ol style="list-style-type: none"> <li>Explain anchoring with reference to the anchors and craft used by your Troop:                             <ol 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 Troop regularly uses</li> </ol> </li> </ol>
<b>Water safety</b>	<ol style="list-style-type: none"> <li>Explain the importance of the care and use of a lifejacket or buoyancy aid and</li> <li>Show how to check that a lifejacket or buoyancy aid is fit to use (buckles, straps, whistle, etc)</li> </ol>	<ol style="list-style-type: none"> <li>Describe the main safety points of any particular craft when on a water activity</li> </ol>	<ol style="list-style-type: none"> <li>Be aware of the relevant safety rules for boating in your locality</li> </ol>
<b>Basic sea survival</b>	<ol style="list-style-type: none"> <li>List the correct personal clothing and equipment for a full day's water activity</li> </ol>	<ol style="list-style-type: none"> <li>Understand the purpose of the "man overboard" drill and rescue techniques</li> </ol>	<ol style="list-style-type: none"> <li>Participate in a "man overboard" drill using rescue techniques</li> </ol>
<b>Water activities</b>	<ol style="list-style-type: none"> <li>Identify equipment to be carried in a small craft for a day's water activity</li> </ol>	<ol style="list-style-type: none"> <li>Appreciate the basic care of the craft and all its equipment</li> <li>Participate in the launching and retrieval of your craft</li> </ol>	<ol style="list-style-type: none"> <li>Show younger Sea Scouts how to rig and de-rig the craft correctly</li> <li>Participate in at least six half day and one full day (if your waters allow) water activities with your Troop</li> </ol>

<b>Navigation (coastal or inland waters)</b>	1. Coastal Navigation i. Understand longitude and latitude, and identify a position ii. Explain the main features and symbols on a chart iii. Identify the main terms used to denote direction from your boat OR 2. Inland Waterway Navigation i. Explain what is meant by the scale of an Ordnance Survey map and show how to measure distances. ii. Explain the National Grid system and use it to identify a position.	1. Coastal Navigation i. Show how to measure distance on a chart ii. Plot a true bearing or course from a compass rose iii. Describe what Cardinal and Half Cardinal points are OR 2. Inland Waterway Navigation i. Identify the main symbols on an OS map and on an Inland Water chart including canals, locks and weirs. ii. Describe what Cardinal and Half Cardinal points are.	1. Coastal Navigation In the steering and sailing rules, explain the general rules for manoeuvring the following: i. A power vessel ii A sailing vessel iii In a narrow channel 2. In the steering and sailing rules, explain the meaning of: - i. Risk of collision. ii. Not under command. iii. Restricted manoeuvrability. OR 1. Inland Waterway Navigation. Explain the rules relating to manoeuvring and right of way on Inland Waterways. 2. Explain how a lock works, both rising and falling.
<b>Rules of the road at sea</b>	1. Discover the basic rules regarding rights of way for the crafts used by your Troop	1. Explain the following terms: i. Bearing ii. Not under command iii. Safe speed iv. Overtaking	1. Explain right of way rules for: i. Powerboats ii. Sailing boats iii. Large ships in a restricted channel
<b>Signalling</b>	1. Discover the most common danger signals in use	1. Demonstrate distress signals by using only oneself and items found on your Sea Scout uniform	1. Demonstrate the use of distress signals in a simulated rescue situation
<b>VHF and GMDSS</b>			1. Be introduced to VHF and GMDSS systems
<b>Nautical history and traditions</b>	1. Discover what an "Ensign" is and where it is flown 2. Show how to raise and lower a National Flag or Ensign 3. Show how to carry a National Flag or Ensign	1. Explain how to care for and demonstrate how to fold a National Flag or Ensign 2. Discover a piece of maritime tradition or history, for example: i. Boatswain's Call ii. The Watch system on ships and the sounding of bells iii. Keel hauling iv. Swinging	1. Appreciate what is meant by the following flags, where they are flown and for what duration on a nautical flagpole or on a vessel: i. Ensign ii. National Flag iii. Sea Scout pennant iv. Troop flag or House flag (if any) v. Duty Watch flag or pennant vi. Courtesy flag vii. Signal Flag.

<b>Nautical terminology</b>	1. Discover what is meant by the following terms: i. Amidship ii. Bridge iii. Aft	1. Discover what is meant by the following terms: i. Forward ii. Bows iii. Forecastle (Foc'sle)	1. Discover what is meant by the following terms: i. Under way ii. Freeboard iii. Quarterdeck
<b>Maritime environment and community</b>	1. Consider the different ways that you can support your local rescue service	1. Plan a visit by your Watch or Troop to your local lifeboat station or other local rescue service and discover how they benefit your community	1. Implement a simple voluntary project that will benefit your local maritime environment or community
<b>Boat maintenance and repairs</b>	1. Participate with your Watch or Troop on at least three occasions with the maintenance or repair of Troop equipment	1. Participate with your Watch or Troop on at least three occasions with the maintenance or repair of Troop equipment 2. Take a leading role in one of these	1. Participate with your Watch or Troop in the completion of at least two of the following: i. Check, clean and dry lifejackets, buoyancy aids or some of a craft's equipment ii. Repair a small crack or hole on a craft iii. Scrape, sand and paint as required. iv. Whip, splice or similar the rigging of a craft as required. v. Carry out some routine maintenance to a craft (e.g. replace spark plugs on an outboard, wash down sails, rigging etc., ) vi. Sea Scouters choice.
<b>Parts of a boat</b>	1. Understand what the following terms refer to: i. Gunwale ii. Gudgeon iii. Pintle iv. Thwart v. Tiller vi. Transom"	1. Understand what the following terms refer to: i. Keel ii. Centreboard iii. Strakes iv. Rudder v Heel vi. Stem vii. Breasthook viii. Knee	1. Understand what the following terms refer to: i. Sheer strake ii. Garboard strake iii. Yoke iv. Oarlock v. Spur vi. Ribs and understand what the following terms mean. Rivet and roove. Mousing.
<b>Marine motors and basic maintenance</b>	1. Be aware of the basic principles of a marine engine and the difference between 2 and 4 stroke	1. Know how to attach an engine securely to your boat	1. Know what checks should be carried out before starting your engine and how to stop and start your engine

<b>Weather</b>	1. On at least two occasions get a weather forecast before a water activity: i. Which forecast gives the most information for the area? ii. Which parts of forecasts are most important for each activity? iii. Was the forecast right and did the weather affect your activity	1. Appreciate the effects weather has on the waters in your area	1. Recognise how the wind (from Beaufort force 0 to force 6) effects conditions on the sea and on the land  2. identify the Beaufort force of the wind on any given day just by looking at the sea conditions
<b>Currents, tides and wind</b>	1. Obtain information on tide times for your normal boating waters	1. Understand the meaning of the terms "Windward" and "Leeward"	1. Describe briefly how tides are formed and understand the meaning of the following terms: i. Spring tide ii. Neap tide iii. Flood iv. Ebb v. High water vi. Low water
<b>Local knowledge</b>	1. Appreciate how local factors can have considerable effect on weather and tidal forces	1. 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	1. Apply your local knowledge when discussing with your Scouter whether the weather forecast will affect an activity that has been planned