



Sea Scout Personal Advancement Records (SPAR) 2016

This SPAR is designed to provide Sea Scouts with an easy-to-use record to track their advancement. All requirements found in this SPAR are based on the current requirements found in the Sea Scout Manual (No. 33239C). This is not an official document of and is not produced or distributed by the Boy Scouts of America.

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These new requirements will take effect immediately. Sea Scouts have until of May 2017 to complete a rank under old requirements.

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APPRENTICE

1. Ideals

b. Repeat from memory and discuss with an adult leader, an Able Scout or a Quartermaster Scout the Scout Oath

the Law

and the Sea Promise

and agree to carry out the provisions of your ship's code and bylaws.

c. Demonstrate acceptable courtesies used aboard a Sea Scout vessel.

d. Demonstrate the proper procedure for boarding a Sea Scout vessel and landship.

2. Active Membership

a. Provide evidence that you are fulfilling your financial obligations to your ship, including helping with fund-raisers. Note:

Check with

your ship's purser.

b. Obtain a Sea Scout uniform.

Describe the Sea Scout uniforms. Tell how and when to wear the uniforms; and explain care of uniforms.

Meet your ship's bylaws requirement for active participation in your ship's meetings and activities for three months.

3. Leadership

Explain the chain of command in your ship.

4. Swimming

a. Jump feet first into water over your head, swim 75 yards/meters in a strong manner using one or more of the following strokes: sidestroke,

breaststroke, trudgen, or crawl; then swim 25yards/meters using the elementary backstroke. The 100 yards/meters must be swum continuously and include at least one sharp turn. After completing the swim, rest by floating on your back, remaining as motionless as possible. _____

b. Discuss the BSA Safe Swim Defense plan and explain how it is used to protect Sea Scouts and other groups during swimming activities. _____

5. Safety

a. Explain the uses, advantages, and disadvantages of the various types of Coast Guard–approved life jackets. _____

Demonstrate the proper use and care of life jackets used by your ship. _____

Discuss your state’s boating laws as they relate to life jacket wear. _____

b. Identify visual day and night marine distress signals, and know their location and the proper use for your ship’s vessel(s). _____

c. Use the Distress Communications Form to demonstrate the procedure to send the following VHF emergency messages:

7. Boat Handling

a. Name the principal parts of a typical sailboat and a runabout.

ORDINARY

1. Ideals

a. Explain the symbolism of the Sea Scout emblem.

b. Give a brief oral history of the U.S. Flag.

c. Demonstrate how to fly, hoist, lower, fold, display and salute the U.S. flag.

Explain flag etiquette and protocols for both land and sea.

d. Discuss with an adult leader how you live the Scout Oath and Law in your daily life.

2. Active Membership

a. Meet your ship's bylaws requirement for active participation in your ship's meetings and activities for three months.

b. Do one of the following.

Recruit a new member for your ship and follow through until the new member is registered and formally admitted with an admissions ceremony,

OR

assist in planning and carrying out a ship recruiting activity, such as an open house or joint activity with a youth group or organization. (Another Sea Scout ship will not count.)

3. Leadership

c. Serve as an activity chair for a major ship event.

Responsibilities should include

4. Swimming

Pass all requirements for the BSA's Swimming merit badge.

5. Safety

a. Discuss BSA Safety Afloat with an adult leader.

b. Describe the safety equipment required by law for your ship's primary vessel.

c. Develop a ship's station bill for your ship and review it with an adult leader.

d. Plan and practice the following drills: man overboard, fire, and abandon ship.

e. Describe three types of equipment used in marine communications.

f. Demonstrate your knowledge of correct maritime radio telephone communications procedures by making at least three calls to another vessel, marinas, bridges, or locks.

g. Galley

i.) Before an activity, submit a menu that uses cooked and uncooked dishes, a list of provisions, and estimated costs for a day's meal (breakfast, lunch, and dinner). Once the provision list is approved, help obtain the items on the list.

ii.) Explain the use of charcoal, pressurized alcohol, and propane. Include safety precautions for each.

iii.) Prepare breakfast, lunch, dinner while on the activity.

Demonstrate your ability to properly use the galley equipment or personal cooking gear generally used by your ship.

iv.) Demonstrate appropriate sanitation techniques for food preparation and meal cleanup.

6. Marlinspike Seamanship

a. Name the various materials used to manufacture rope, the advantages and disadvantages of each, and the characteristics of laid and braided rope.

Discuss the meaning of lay, thread, strand, and hawser.

Explain how rope is sized and measured.

b. Using both large and small lines, tie and explain the use of the following knots:

d. Demonstrate how to cut and heat-seal a synthetic line
and whip the end of plain-laid line using waxed cord or similar



7. Boat Handling

b. Demonstrate your ability to handle a vessel with paddles or oars by doing one of the following:

OR

8. Ground Tackle

a. Name the parts of a stock anchor and a stock-less anchor.

b. Describe five types of anchors.

Describe how each type holds the bottom, the kind of bottom in which it holds best, and the advantages or disadvantages of each type.

c. Calculate the amount of anchor rode necessary for your ship's primary vessel in the following depths: 10, 20, and 30 feet in normal and storm conditions.

d. Demonstrate the ability to set and weigh anchor.

9. Navigation Rules

a. Explain the purpose of Navigation Rules, International and Inland.

b. Know the general "Rule of Responsibility."

c. Define stand-on and give-way vessels for the following situations: meeting, crossing, and overtaking for both power and sailing vessels.

d. Explain "Responsibility Between Vessels" (vessel priority).

e. Explain the navigation lights required for power-driven and sailing vessels underway. Explain what is required for a vessel under oars.

Describe the lighting requirements for paddle craft.

Explain why carrying a sound producing device like a whistle is important when operating a paddle craft.

10. Piloting and Navigation

a. Demonstrate your understanding of latitude and longitude.

Using a chart, demonstrate that you can locate your position from given coordinates and determine the coordinates of at least five aids to navigation.

- b. Explain the degree system of compass direction. _____
- c. Describe three kinds of devices used aboard ship for measuring speed and/or distance traveled and, if possible, demonstrate their use. _____
- d. Explain the 24-hour time system and demonstrate that you can convert between 12- and 24-hour time. _____
- e. Understand Universal Coordinated Time (Greenwich Mean Time or Zulu Time) and zone time. Demonstrate your ability to convert from one to the other for your local area. _____
- f. Make a dead reckoning table of compass and distances (minimum three legs) between two points, plot these on a chart, and determine the final position. Note: Ideally this requirement should be met while underway. If this is not possible, it may be simulated using charts. _____
- g. Discuss how a GPS works. _____
 Explain possible uses and functions including different screen views. _____
 Use a GPS to set a waypoint and navigate to the waypoint you have set. _____

11. Practical Deck Seamanship

- a. Name the seven watches and explain bell time. _____
- b. Explain the duties of a lookout and demonstrate how to report objects in view and wind directions with respect to the vessel. _____
- c. Name relative bearings expressed in degrees. _____
- d. While underway, serve as a lookout for two hours total. When boating in a manually propelled craft, boating alone or as a bow paddler for a tandem craft will meet this requirement. _____
- e. Demonstrate the use of wheel or helm commands found in the Sea Scout Manual. _____
- f. Describe the deck log kept aboard your ship's principal craft. _____
 Contribute to the cruise log for three days of cruising (one cruise or a combination of day cruises). Submit the cruise logs to your Skipper. _____

12. Environment

- a. Discuss with an adult leader the Federal Water Pollution Control Act as related to oil discharges. _____

ABLE

1. Ideals

a. Organize and conduct two impressive opening and closing ceremonies for your ship.

b. Explain how our nation's maritime history has contributed to our way of life. Note: Explain" means to convey information to one or more people using any of the following methods (or something similar approved by your Skipper): video, computer slide show (PowerPoint), story board (project board display), diorama, model, annotated photo album, verbal report, or written report. For comparison purposes, a written report of 500 to 1,000 words would form an appropriate explanation.

2. Active Membership

a. Meet your ship's bylaws requirement for active participation in your ship's meetings and activities for six months.

b. Prepare and present a program on Sea Scouts for a Boy Scout troop, Venturing crew, Venturing Officers' Association meeting, school class, or other youth group. Your presentation should last a minimum of 15 minutes and describe the activities of your ship and Sea Scouts.

3. Leadership

Either serve and fulfill the responsibilities of a crew leader or an elected officer of your ship, or serve as an activity chair for two major ship events. Responsibilities should include planning, directing, and evaluating the event. (These events are in addition to the Ordinary requirement.)

4. Swimming

Pass all requirements for the BSA's Lifesaving merit badge.

5. Safety

a. Develop and use a customized vessel safety checklist for a boat used by your ship.

b. Demonstrate your understanding of fire prevention on vessels.

e. Conduct a fire safety inspection of the vessel normally used by your ship or of your ship's meeting place. Note any fire hazards and report them

f. Complete the certification for standard first aid through the American Red Cross, the American Heart Association, or other approved

g. Complete the certification for CPR through the American Red Cross, the American Heart Association, or other approved organizations' course. _____

6. Marlinespike Seamanship

and a palm-and-needle whipping. _____

and grommet eye in canvas or sail material. _____

Describe how each is used in construction of and the care of sails. _____

With the help of another shipmate, reeve a double purchase tackle. _____

OR

Establish a 2 point load distributing anchor point and a 3:1 mechanical

advantage system (e.g., Z-drag) used to unpin paddlecraft.

Use the system to haul a weight at least five feet across the ground. The system must include a progress capture system and a damper.

7. Boat Handling

a. Demonstrate your ability to properly operate a small boat equipped with a motor. Included should be fueling, starting, leaving a dock, maneuvering, docking and coming alongside.

b. Know the names and functions of lines used to secure a vessel to a wharf or pier.

Understand and execute docking commands used in handling lines on your ship's primary vessel.

8. Ground Tackle

a. Describe the various kinds of anchor rode and the advantages and disadvantages of each type.

b. Identify the parts of the anchor cable starting with the anchor and ending at the vessel.

c. Describe the methods of marking chain or rode and demonstrate that you know the chain or rode markings on your ship's vessel.

d. While on a cruise assist in the construction of an anchor watch schedule and stand one watch.

e. Identify a capstan or windlass and explain its use in handling line, wire rope, or chain.

9. Navigation Rules

a. Demonstrate a working knowledge of Navigation Rules, International and Inland.

b. Explain vessel lights and day shapes for the following:

towing (astern, alongside, pushing ahead, and cannot deviate),

fishing

trawling

restricted maneuverability

not under command

underwater operations

d. Read in detail a National Ocean Service (NOS) chart, preferably for the area normally cruised by your ship, identifying all marks on it. _____

10. Piloting and Navigation

OR

Keep a journal of paddling trips that includes names of participants, access points, waterway description and notable events. Record at least three trips in the journal and submit to your Skipper. _____

b. Lay a course of at least three legs and execute it using dead reckoning. _____

c. Demonstrate your ability to fix your position by the following methods:
and estimated position. _____

d. Establish distance from a known object using “double the angle on the bow” and explain how to set a danger bearing. _____

e. Enter three waypoints into an electronic navigation device (i.e. GPS, chart plotter) and navigate your vessel to each point. Demonstrate the use of the MOB function of your electronic navigation device. _____

g. Explain the use of tide tables, current tables, light lists, and how to update a chart using the Notice to Mariners. _____

11. Practical Deck Seamanship

a. Demonstrate your knowledge of personal safety equipment needed

while cleaning, maintaining, or repairing your vessel.

b. Know the names, uses, sizes, and proper care of the common hand tools used by your ship.

c. Identify and explain the use of the following:

and other ship's hardware and fittings commonly used aboard your ship's vessels.

d. Demonstrate proper surface and coating preparation, coating techniques, care of stored coatings, and cleaning of brushes and tools used to maintain surfaces on your ship's vessel.

e. Explain techniques used for the maintenance, protection, and repair of hulls and decks on your ship's vessel.

12. Environment

a. Demonstrate your knowledge of local environmental laws related to the proper storage, disposal, and cleanup of maritime coating materials, fuels, and other environmentally sensitive materials.

b. Discuss with an adult leader the dumping of garbage in the marine environment.

Review the contents of the MARPOL placard and locate it aboard your ship's vessels if applicable.

13. Weather

14. Cruising

15. Electives

QUARTERMASTER

1. Ideals

- a. Initiate a discussion on the ideals stated in the Sea Promise. _____
- b. Prepare a written analysis, offering recommendations for improvements regarding one of the following ship's programs: bylaws and code _____

2. Active Membership

- a. Meet your ship's bylaws requirement for active participation in your ship's meetings and activities for six months. _____
- b. Present a talk or program at least 15 minutes long on Sea Scouts to a service club, religious organization, PTA, or other adult organization. _____

3. Leadership

- a. Quartermaster Project:** While an Able Sea Scout, plan, develop, and demonstrate leadership to others in a service project that is helpful to any religious institution, school, or your community. The project plan must be approved by your Skipper and ship committee and approved by the council or district advancement committee before you start. This service project should involve your ship and at least one other group. You must use the Quartermaster Service Project Workbook, 420-011 to document your work. _____
- b. Officer:** Serve as a ship officer for at least six months. _____
- c. Quartermaster Cruise:** Take command of a vessel with a crew of not less than four Sea Scouts for at least 40 consecutive hours, including two nights. You must delegate and supervise all duties. During the cruise complete the following: File a float plan, inspect the vessel for required equipment; supervise all menu preparation; prepare the boat to get underway with a proper checklist approved by the adult leaders; anchor, dock, and maintain course by commands to the helmsman; remain _____

and any other drills used by your ship. During this cruise no substantial errors may be committed.

OR

Plan and lead a paddlecraft cruise with at least four paddlecraft for at least two days. You must delegate and supervise all duties.

During the cruise complete the following: Inspect the vessels and supervise all menu preparation

If on open water, prepare a navigation chart including at least three legs and/or course corrections. If on inland rivers, identify river access points and coordinate transportation at both ends of the trip.

With an adult leader, inspect all vessels and evaluate whether they are adequately secured for transportation. During this cruise no substantial errors may be committed.

OR

d. Organize and help conduct the BSA's Introduction to Leadership Skills for Ships (ILSS) for your ship, or serve as a NYLT staff advisor.

4. Swimming

Complete the requirements for Lifeguard through BSA, the American Red Cross, or other approved organizations' lifeguard course.

5. Safety

a. Know the heavy-weather precautions taken aboard power, sailing, and paddle vessels when dangerous weather approaches, and demonstrate these precautions aboard the vessel used by your ship.

6. Marlinspike Seamanship

and Able marlinspike seamanship requirements to a crew.

b. Make an eye splice in double-braided line.

7. Boat Handling

a. Take charge of the craft used by your ship and give all commands to the crew for picking up a mooring buoy and properly mooring the vessel in several wind and current situations.

b. Demonstrate and teach the principles of springing into and out from a dock, from both bow and stern, using an engine depending on the type of vessel used by your ship.

and Able boat handling requirements to a crew.

8. Ground Tackle

a. Teach the Ordinary and Able anchoring requirements to a crew.

b. Know the methods of bringing a vessel to anchor and a mooring with special emphasis on wind and current.

c. Take charge of a vessel used by your ship and give all commands to the crew for setting and weighing anchor in several wind and

9. Navigation Rules

Teach the Ordinary navigation rules requirements

10. *Piloting and Navigation*

- a. Teach the Ordinary and Able piloting requirements to a crew. _____
- b. Know the methods of fixing a boat's position in limited visibility. _____
- c. Create a route in an electronic navigation device that includes at least five waypoints. Use the electronic navigation device to navigate your route. _____

11. *Weather*

- a. Teach the Ordinary and Able weather requirements to a crew. _____
- b. Demonstrate your knowledge of the weather signs for your local area, including cloud types. Prepare a 48-hour forecast and compare your forecast with the actual weather that occurred. _____

12. *Environment*

- a. Discuss the three types of marine sanitation devices and the laws governing sewage discharge. _____
- b. Explain what graywater is and how it should be handled in your boating area. _____
- c. Write a 500-word report on an aquatic environment (freshwater, coastal, estuary, or sanctuary). Include in the report the location, habitat, history, animals and plants that inhabit the area, its importance to man, current regulations, and what boaters can do to help preserve it for future generations. _____

13. *Electives*

Choose any four level 3 electives from the following options.

Sea Scout Advancement Electives

Ordinary: Choose any three electives.

Able: Choose any four additional electives, level 2 or higher.

Quartermaster: Choose any four additional electives, level 3 only.

Leadership

1. Attend National Youth Leadership Training (NYLT).
2. Attend National Advanced Youth Leadership Training (NAYLE).
3. Attend Wood Badge (youth 18 and over).
3. Attend Powderhorn (youth 14 and over).

Duty to God

Sailing

2. While leading a crew of not less than two other persons, demonstrate your ability to sail a sloop or another suitable vessel correctly and safely over a triangular course (leeward, windward, reaching marks), demonstrating beating, reaching, running, and the proper commands. _____

Paddlecraft

2. Take a course from an ACA certified instructor. _____
2. Complete the requirements for one of the following: Board-sailing BSA, Kayaking BSA, or Stand Up Paddling BSA, or the Kayaking, Whitewater, or Canoeing merit badge. (Note: This must be a different activity from the one chosen under Level 1 Electives –

- 2. Complete an ACA level 3 or higher swift water rescue course. _____
- 2. Earn ACA instructor certification in canoe, kayak or SUP at any level. _____

Vessels

1. Teach and lead a crew under oar using a boat pulling at least four oars single- or double-banked. Perform the following maneuvers:

Racing

1. Describe the procedures used in yacht racing and the signals used by the race committee to start a race. Serve as a crew member in a race sailed under current International Sailing Federation Rules. _____

2. i.) Demonstrate your understanding of the shapes, flag hoists, gun, and horn signals used in yacht racing as well as a working knowledge of the racing rules of the International Sailing Federation (ISAF).

ii) Serve as helmsman, with one or more additional crew members, of a sloop-rigged or other suitable boat with a spinnaker in a race sailed under ISAF racing rules. _____

3. Take charge of a crew in a race using current ISAF racing rules. _____

Engines

1. Perform routine maintenance on your ship's propulsion system,

including filter, spark plug, oil changes, proper fueling procedures and other routine maintenance tasks. Refer to operations manuals or your ship's adult leaders for correct procedures and guidance.

2.i. Understand the safe and proper procedures for the use of gasoline and diesel inboard engines, including fueling, pre-start checks, ventilation, starting, running, periodic checks while running, securing, postoperative checks, and keeping an engine log.

ii. Using the type of engine aboard the vessel you most frequently use, demonstrate your understanding of basic troubleshooting and the preventive maintenance schedule recommended by the manufacturer.

3.i. Explain the principal features of steam turbine, turbo-electric, direct reversing diesel, diesel-electric, gas turbine, nuclear, gasoline, and diesel engines and the relative advantages of each type.

ii. Explain the operation of spark ignition and compression ignition for internal combustion engines used aboard small vessels.

iii. Demonstrate your familiarity with the engine aboard the vessel used by your ship, including its principles of operation, fuel, lubrication, cooling and electrical systems, and their component parts.

iv. Demonstrate your ability to locate and correct minor engine troubles according to the engine manufacturer's troubleshooting guide.

Vessel Maintenance

2. Demonstrate your proficiency and knowledge of fiberglass repair and gel coating while working on your ship's vessel or other similar vessel.

2. Demonstrate your knowledge of small paddlecraft construction by building your own or assisting in building a canoe or kayak from wood, fiberglass, or other suitable materials. Kits may be used.

3. Take charge of reconditioning or overhauling at least one of your ship's vessels, or take charge of hauling out the principal vessel used by your ship. In either case, lay out a plan of the work to be done in advance, including an estimate of the materials, tools, cost, and time involved.

3. Take charge of building a paddlecraft. Lay out the plan of work to be done, identify suitable building plans, estimate materials, tools, cost, and time involved. Launch the craft.

3. Electricity: i.) Know and demonstrate the correct method of rescuing a person in contact with a live wire.

ii.) Understand the construction of simple battery cells. Demonstrate the

proper care of storage batteries.

iii.) Explain the difference between direct current and alternating current and the best uses for each.

- iv.) Demonstrate that you know how to replace fuses, reset circuit breakers and properly splice shipboard electric cable. _____
 - v.) Submit a diagram of the electrical system aboard the vessel used by _____
 - vi.) Explain wire tables, the current-carrying capacity of circuits, and the hazards and prevention of electrical overloading. _____
 - vii.) Explain electrolysis as applied to the deterioration of a boat's under water fittings by galvanic action and its prevention. _____
3. Rigging: Demonstrate your ability to splice and handle wire rope, attach wire rope fittings, and complete a safety and tuning inspection of a vessel. _____

Specialty Proficiency

- 2. Complete the requirements for one of the following: Boardsailing BSA, Kayaking BSA, or Stand Up Paddling BSA, or the Kayaking, Whitewater, or Canoeing merit badge. (Note: This must be a different activity from the one chosen under Level 1 Electives – Paddlecraft.) _____
- 3. Become a certified scuba diver or become proficient in board-sailing, surfing, kayaking, or whitewater rafting/canoeing. _____
- 3. Teach another Sea Scout the information needed to complete the BSA Kayaking, Canoeing or Whitewater merit badge or the SUP or _____

Ornamental Ropework

- 1. Make a three-strand Turk's head and a three-strand monkey's fist. Using either ornamental knot, make up a heaving line. _____
- 2. Demonstrate your ability to fashion the following items of ornamental rope work: four strand Turk's head _____
 - Make a useful item such as a boatswain's lanyard, rigging knife lanyard, bell rope, etc., or decorate a portion of your ship's equipment such as a _____
 - stanchion, rail, lifeline, tiller, etc. _____

Maritime Tradition

1. Drill: Demonstrate your ability to execute commands in close-order drill. _____
2. Maritime History: Describe the highlights of maritime history from the earliest times to the present. Include the evolution of vessel construction and propulsion, important voyages of exploration and development, the origin of maritime traditions, and the achievements of notable maritime leaders in U.S. sea history. _____
2. Drill: Demonstrate your ability to give and execute commands in close-order drill. _____
3. i.) Celestial Navigation: Explain how the sextant works. Show how to use it and demonstrate measuring horizontal angles and altitudes. _____
ii.) Find latitude by the altitude of Polaris or by the sun's altitude at local apparent noon. Demonstrate how longitude is determined. _____
iii.) Demonstrate finding error in the boat's compass by the sun's azimuth. _____
3. Drill: Demonstrate your ability to handle the ship's company in close-order drill. Do all the required maneuvers. _____

United States Coast Guard Auxiliary

1. Successfully complete either the Coast Guard Auxiliary Boating Skills and Seamanship or Sailing Skills and Seamanship course. All core sessions, as well as at least three elective sessions, must be completed to fulfill this requirement. _____
3. Join a local Coast Guard Auxiliary flotilla as a Basic Qualified member and qualify for any Operational Auxiliary Program (AUXOP) or any _____

Trident Marine Safety specialty rating.

United States Power Squadrons

1. Be inducted as a member of your local USPS Squadron.

2. As a member of the United States Power Squadrons complete the Seamanship and Piloting courses.

3. As an apprentice member of the United States Power Squadrons complete the Advanced Piloting course.

Reference materials such as U.S. Coast Guard navigation rules, International Sailing Federation Rules, OSHA requirements, International Code of Signals, and some others change frequently. They should be available in your ship's library. They are not reprinted in this manual.