

SS&S Chapter 6 Instructor Guide

Trailing Your Sailboat

The PowerPoints (PPT) slides for this SS&S chapter were copied from the BS&S-13th Ed PPT because they are identical. Only the chapter numbers have been changed. Therefore, the Instructor Guide notes remain in the same format as published for the BS&S which are slightly different from the sailing chapters.

Slide 1: Title Slide

Instructor:

Student:

Slide 2: Lesson Objectives

(click to show bullets)
Review the objectives

Slide 3: Legal Considerations

Instructor:

Student:

(click to show bullets)

Explain to class:

Width on most state roads is 8' federally supported highways with 12' trailer width 8 1/2' allowed.

Lights, licenses & mirrors-check with state requirements

If chains have S hooks, pass them into the hitch from underneath...cross chains to make a cradle

Slide 4: Practical Considerations

Instructor:

Student:

(click to show bullets)

Ask class what to consider when buying a trailer.

Expected answers:

size of boat

towing vehicle

use in fresh or salt water

type of launch ramp

Slide 5: Practical Considerations

Instructor:

Student:

(click to show bullets)

Explain that:

flat bottom boat easiest to trailer and others more difficult

Slide 6: Practical Considerations

Instructor:

Student:

(click to show bullets)

When considering size weight and load

must figure into decision.

If sum is within 15% of GVWR of trailer select next larger size

Slide 7: Practical Considerations

Instructor:

Student:

(click to show bullets)

Describe operation of each trailer.

Explain that:

1. some trailers are hinged allowing the rear end of the trailer to tilt up or down which gives the option of not having to get too close to water

Point out that this type of trailer requires a long ramp.

Slide 8: Practical Considerations

Instructor:

Student:

(click to show bullets)

Ask what type of boats and situations would influence your choice of trailer

Lead discussion keeping in mind:

- a. skid trailers are cheapest and support the length of boat but friction makes for increased winching force
- b. roll supporting trailers hold boat at rollers for less required winching power, higher maint.
- c. float on easy loading, but subject to rust

Slide 9: Care of Your Trailer

Instructor:
(click to show bullets)

Ask class what maint. problems they have encountered.

Student:

Expected answers:
rust
bearing failure
tire changing

Slide 10 and 11: Care of Your Trailer

Instructor:
(click to show bullets)

Explain that:

- a. bearings must be lubricated, describe bearing buddies, bring one to class
- b. disconnect lights before launch
- c. keep tires inflated
- d. discuss equipment needed and changing of tire.

Student:

Slide 12: Other Considerations

Instructor:
(click to show bullets)

Ask class what other items should be considered.

Student:

Expected answers:
flares
fire extinguisher
winches
tie downs
rust paint

Slide 13: Towing Vehicle

Instructor:

(click to show bullets)

Ask what to consider when buying a towing vehicle.

Student:

Expected answers:

cooling
transmission
brakes
suspension

Point out that:

- a. the towing vehicle must be powerful enough to tow the load and be maneuverable.
- b. vehicles can be purchased with towing packages enhancing their towing capabilities.

Slide 14 and 15: Hitches

Instructor:

(click to show bullets)

Discuss bullets on slide 15

Student:

Explain that:

Bumper hitches do not offer much support; illegal in many states
Frame mounted on vehicle with multiple attachment points.
Weight dist. hitch shifts some weight from rear axle to front axle of vehicle. Be aware of possible interference with surge brake coupler.

Slide 16: Planing Hull

Instructor:
(click to show bullets)

Student:

Point out:

<u>Hitch</u>	<u>Towing Capacity</u>	<u>Ball size</u>
no shown	do not have ratings	
Class I	2000 lbs	17/8 inch
Class II	3500 lbs	2 inch
Class III	5000 lbs	2 inch
Class IV	10000 lbs	25/16 inch

Slide 17: Balancing the Load

Instructor:
(click to show bullets)

Student:

Explain:

- a. if too much weight on tongue, tow vehicle front lifts and rear sags making it hard to handle
- b. If too little weight on tongue, trailer apt to fishtail.

Slide 18: Handling Your Trailer

Instructor:
(click to show bullets)

Student:

Discuss each bullet

Slide 19: Pre-departure Checklist

Instructor:
(click to show bullets)

Student:

Ask class what things to include on the list.
Use the Trailering Checklist on pg 142 for possible answers.

Slide 20: Preparing to Launch

Instructor:

(click to show bullets)

Student:

Ask what some of courtesies are to remember when launching.

Explain that:

- a. Pull to side and let brakes cool
- b. Undo tie downs
- c. Put in drain plugs
- d. If sailboat, check for overhead power lines
- e. Unplug trailer lights, secure wiring

Slide 21: Launching

Instructor:

(click to show bullets)

Student:

Point out:

- a. Some ramps are Algae covered and slippery.
- b. Do not load/unload on ramp.
- c. Have a set procedure to follow.

Slide 22: Launching

Instructor:

(click to show bullets)

Student:

Discuss each bullet

Slide 23: Retrieving

Instructor:

(click to show bullets)

Student:

Ask what are things to remember when retrieving the boat.

Answers should include:

- a. lift stern drive
- b. back trailer to boat, under it is float on
- c. set brake and wheel chocks
- d. attach winch line
- e. winch on to trailer
- f. drive to parking lot

Slide 24: Storing Boat/Trailer

Instructor:

(click to show bullets)

Discuss each item:

- a. removing wheels prolongs wear
- b. bring battery indoors/charge
- c. leave some openings in cover for air circulation.

Student:

Slide 25: Theft Prevention

Instructor:

(click to show bullets)

Ask if anyone has had problems regarding theft of boat or trailer.

Student:

Slide 26: Theft Prevention

Instructor:

(click to show bullets)

Ask class to name some precautions to take.

Student:

Some answers:
Mark HIN in safe place
take an inventory
mark equipment
have insurance

Slide 27: Theft Prevention

Instructor:

(click to show bullets)

Discuss the bullets.

Add that the boater may want to secure or remove the winch.

Student:

Slide 28: Theft Prevention

Instructor:

(click to show bullets)

Ask what precautions you can take at home or on the dock?

Student:

Answers should include:

- a. secure vessel
- b. put it in garage
- c. chain to permanent structure
- d. remove a trailer wheel
- e. remove equipment
- f. remove or lock motor to boat

Slide 29: Aquatic Nuisance Species

Instructor:

(click to show bullets)

Has anyone heard of exotic species in this area?

Student:

Expected answers:

mussels
milfoil

Exotic species are those, which have been introduced into an area they would normally live in, having no natural enemies and multiplying quickly taking food normally consumed by the native species.

Slide 30: Aquatic Nuisance Species

Instructor:
(click to show bullets)

Ask who can recall some of the steps to take to stop the spread?

Student:

Answers should include:
bottom paint selection
use only approved bottom paint
exterior cleaning/boat and trailer
eliminate trapped water
empty bait container and bilges
on shore
remove local material from
boat/trailer
mix chlorine bleach in washing
mixture
remove all mud, flora, fauna from
equipment
don't use bait from one body of
water to another

Slide 31: Float Plan

Instructor:
(click to show bullets)

Ask why you should file a float plan?

Answers should include:

filling out float plan is best way to get rescued

Point out:

When trailering you can place under windshield
wiper of car

Cancel float plan when you return

Bring a sample float plan to class for students.

Student: