

Boat Building & Navigation – Modified from [Unit 2](#) - Knot Tying and Practice Quiz

Targeted Goals from Stage 1: Desired Results

- Demonstrate professionalism through exhibiting attentiveness, growing from feedback, and adhering to industry standards (safety).
- Explore and hone techniques and skills in safe boat operation to operate any recreational vessel including a personal watercraft in the state of Connecticut.
- Explain how governmental regulations impact transportation.
- Define and properly use common transportation technology terminology (e.g. combustion. pathways. velocity. vehicle. mode. payload. and terminal).

Content Knowledge:

- Knot tying
- The way people operate their boat is directly related to safety on the water.
- Federal and state boating laws

Vocabulary:

- **Cleat hitch** - The cleat hitch is the perfect knot for securing the boat to the dock while the tow vehicle is being parked. It's perfect for a fuel dock or a waterfront restaurant. It's also used to secure the rope rode or the snubber when anchoring.
- **Bowline** - The bowline is an ancient and simple knot used to form a fixed "eye" at the end of a rope. It has the virtues of being both easy to tie and untie; most notably, it is easy to untie after being subjected to a load. The bowline is sometimes referred to as King of the knots because of its importance.
- **Figure 8** - The figure-eight knot or figure-of-eight knot is a type of stopper knot. It is very important in both sailing and rock climbing as a method of stopping ropes from running out of retaining devices.
- **Clove Hitch** - The clove hitch is a type of knot. Along with the bowline and the sheet bend, it is often considered one of the most important knots and is commonly referred to as a Double Hitch. A clove hitch is two successive half-hitches around an object. It is most effectively used as a crossing knot.
- **Sheet Bend** - The sheet bend is a bend. It is practical for joining lines of different diameter or rigidity. It is quick and easy to tie, and is considered so essential it is the first knot given in the Ashley Book of Knots.

Skills: Apply legal requirements and best practices needed before departing on a vessel.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: View Knot tying Videos and Definitions, practice with spare piece of rope or dock line tying 5 different knots	Google Classroom	Small group meetings conducted with targeted areas for clarification and/or mini lesson View Related Videos E-mail or message me with any questions or concerns
Tuesday: Practice quiz Take the practice quiz	Google Classroom	View Related Videos E-mail or message me with any questions or concerns
Wednesday: Practice tying knots	Google Classroom	Small group meetings conducted with targeted areas for clarification and/or mini lessons
Thursday: Practice tying knots	Google Classroom	Create a google doc for Practice Quiz and Knot tying pictures
Friday: Submit knot tying results and practice quiz on Google classroom.	Create a Google doc with pictures of the 5 knots you tied Labeled with the correct name and submit for credit. Cleat hitch - Bowline - Figure 8 - Clove Hitch - Sheet Bend	Submit Practice quiz and Knot tying pictures on Document Google classroom

Week criteria for success (attach student checklists or rubrics):

- Have students do knot tying and practice quiz (formative assessment).
- Record the questions for the quiz and submit the answers.
- Submit knot tying sheet.

Supportive resources and tutorials for the week (plans for re-teaching):