

# Marine Technology 10/11

## COURSE OUTLINE

### COURSE OBJECTIVE:

Boating is a recreational activity that many people enjoy. However, a fun day out on the water can be ruined if some basic preparation, safety awareness and more importantly common sense aren't used. For these mentioned reasons, the objective of this course is to give students basic knowledge of boats and safe boating on the water.

### PLEASURE CRAFT OPERATORS CARD

The Canadian Coast Guard has introduced new regulations for operators of pleasure boats. People are required by law to show proof of competency with regards to boating. This course will prepare you to write the exam for the Canadian Coast Guard's **Pleasure Craft Operators Card** (PCOC) that you need to operate a boat or personal watercraft **legally** in Canada.

### BOATING TEST COSTS

A \$35 fee is required for writing the PCOC which will be administered and marked by the local Canadian Power Squadron.

### RESPONSIBILITY OF THE STUDENT:

- 1) Always show responsibility and maturity while operating in the shop. Unsafe or foolish behaviour is unacceptable and could result in removal from the class.
- 2) Treat tools carefully so that they will always work properly for you and for others.
- 3) If an accident occurs report it to the teacher immediately.
- 4) If a tool or machine is broken report it to the teacher immediately.
- 5) If you are ever in doubt, ask the teacher.
- 6) If a student is absent, it is his/her responsibility to make-up missed work. All materials and assignments can be found here [Makerspace.lsfeldschool.com](http://Makerspace.lsfeldschool.com)
- 7) You will need a NOTEBOOK, PENCIL and ear buds (NOT your cell phone) for most classes.

## **MAIN TOPICS/PROJECTS:**

### 1) Safe Boating Theory

This portion of the course will focus on all aspects of boat safety and what will be needed for you to successfully write and pass the exam for the Pleasure Craft Operators Card. It will be spread out throughout the course consuming approximately 20-25 hours. Notes will be taken on a daily basis.

Topics covered will include;

- Parts of a boat
- Personal safety
- Safety equipment on a boat
- Aids to Navigation (Buoys)
- Collision Regulations
- Common Sense on the water
- Ropes and Knots
- Chart work

### 2) Cardboard Boat

This project consuming upwards of 20-25 classes. In groups of 2 you will design and make a scale model of a boat and then build it full size out of cardboard. You will then have to sit in your boat and race it against others in Comox Lake in June.

## **THEORY/COURSE EVALUATION:**

- |    |                      |   |
|----|----------------------|---|
| 1) | Assignments (30%)    | These will be given throughout the course mainly on boat safety and will be completed in class or for homework. They will be both practical and theoretical.            |
| 2) | Tests/Quizzes (30%)  | This includes bi-weekly quizzes, tests, final exam.   |
| 3) | Cardboard Boat (40%) | This mark is made up of several smaller marks for each component of the project (i.e. drawing, model, quality of construction, finish applied, race day results, etc.). |