

# Electric Boat Course

## *Level 1: Introduction to Electric Boats*

FALL 2022

### COURSE DEVELOPERS/COLLABORATORS

Island Institute  
Maine Community College System  
Mid-Coast School of Technology  
Maine Electric Boat Company

### COURSE DESCRIPTION

This online, asynchronous course provides an introduction to electric boats to help the general public and those already in the field to gain an understanding of the benefits of electric boats and the potential workforce pathways within the sector. Successful completion of a quiz at the end will result in a digital badge. Running time is approximately 90 minutes.

### LEARNING OUTCOMES

- Identify the benefits of electric boats
- Identify the challenges of electric boats
- Identify the uses of electric boats
- Identify the growth and opportunities of electric boats in Maine

### COURSE SEQUENCE

1. INTRODUCTION
2. BENEFITS
  - a. Performance
  - b. Environmental
  - c. Economic
  - d. Health
3. CHALLENGES
  - a. Upfront Cost
  - b. Range
  - c. Charging Infrastructure
  - d. Feasibility
4. USES
  - a. Work boats
  - b. Recreational boats
  - c. Ferry boats
  - d. Cruise and military ships
  - e. Commercial fishing boats
5. GROWTH AND OPPORTUNITY
  - a. Compare to electric cars
  - b. Maine and national electric boat companies
  - c. Further training - Electric Boat Course Parts 2 & 3