

Knowledge Development

Learning Objectives

By the end of knowledge development, student divers will be able to explain:

Advantages of diving from a boat, boat terminology, general dive boat categories and their characteristics, and boating laws and regulations.

- **What are five advantages of diving from a boat?**
- **What are a boat's *bow (forward)*, *stern (astern, aft)*, *starboard side* and *port side*?**
- **Which is the *windward* side and which is the *leeward* side of a boat?**
- **What do the following terms refer to on a boat: *head*, *galley*, *bridge*, *wheelhouse (or pilothouse)*, *transom*, *rail*, *cylinder racks*, *bunks (staterooms)*, *galley* and *diving entry/exit area*?**
- **What three features do you expect from virtually any dive boat?**
- **What are the four general dive boat categories and their characteristics?**
- What are the local boating laws and regulations specific to: a) boat ownership, b) registration, c) numbering, and d) documentation? (optional)

Basic rules of the road, navigational aids for locating or relocating a dive site, and safety/emergency equipment for boat diving.

- **What are the basic international rules of the road?**
- What are the common, local navigational aids? (optional)
- **What are navigational charts and why are they important?**
- What navigational instruments do you use to navigate a boat? (optional)
- **What considerations apply to when a dive boat leaves and returns to the dock?**
- **What eight pieces of basic safety equipment do you typically find on dive boats?**
- **Where would you typically find each of those eight pieces of safety equipment?**
- **How do you operate the marine radio on board a dive boat according to local regulations and procedures?**

Basic guides to boating safety.

- What does the term piloting mean? (optional)
- What are the seven dimensions of piloting? (optional)
- What does the term dead reckoning mean and how do you use the basic principles of dead reckoning while piloting a boat? (optional)

- **What are four considerations when selecting a mooring or an anchorage for diving?**
- How do you tie up to and release from a mooring? (optional)
- How do you set up, secure, deploy, retrieve, and stow an anchor on board a dive boat? (optional)
- What are the basic guides to boating safety? (optional)

Boat diving preparation, the prevention of seasickness, and charter boat boarding and pre-dive procedures.

- **How do you prepare your equipment for a boat dive?**
- **How do you prepare yourself for a boat dive?**
- **How do you prevent seasickness?**
- **What should you do if you get seasick?**
- **What are the general boarding procedures for a charter dive boat?**
- **What four topics will a boat dive area orientation briefing usually cover?**
- **What is the procedure for suiting up and gearing up on a dive boat?**
- **Why is a pre-dive roll call by divemasters or crewmembers important?**

Boat diving procedures, the use of lines, knot tying, and post-dive procedures.

- **What are the general guidelines for making entries from various types of boats?**
- **What are *trip lines*, *gear lines*, *descent lines*, and *current lines* used for?**
- **What are the procedures for descending while boat diving?**
- **In which direction should you generally head when boat diving?**
- **What are the general guidelines for ascents while boat diving?**
- **What are the general guidelines for exiting into a boat?**
- **How should you repack and stow your gear after a dive on various sized boats?**
- **Why should you listen to post-dive roll calls by divemasters or crewmembers?**