

## **23. Sidemount Diver**

### **23.1 Introduction**

This course is designed to teach certified divers how to safely utilize side-mounted primary Cylinders as an alternative to the traditional back-mounted configuration. The course is strictly non-decompression with a maximum depth limit of 40 metre /130 Feet, or within the limit of the student's current certification, whichever is shallower.

### **23.2 Qualifications of Graduates**

Upon successful completion of this course, graduates may engage in Sidemount diving activities without direct supervision provided the following limits are adhered to:

1. Safety stops as appropriate.
2. Planned dives do not exceed the diver's current certification level.

### **23.3 Who May Teach**

1. This course may be taught by any active SDI Sidemount Specialty Instructor.
2. Instructors can apply for administrative upgrade by:
  - a. Providing documentation of SDI Sidemount diver level certification or equivalent.
  - b. Completing 25 Sidemount dives.

#### **OR**

1. Successfully completing an SDI Sidemount Instructor course with a active SDI Sidemount IT and completing 10 Sidemount dives.

### **23.4 Student to Instructor Ratio**

#### **Academic:**

1. Unlimited, so long as adequate facilities, supplies and time are provided to ensure comprehensive and complete training of subject matter.

#### **Confined Water (swimming pool-like conditions):**

1. A maximum of 8 students per instructor; it is the instructor's discretion to reduce this number as conditions dictate.

#### **Open Water (ocean, lake, quarry, spring, river, or estuary):**

1. A maximum of 8 students per instructor; it is the instructor's discretion to reduce this number as conditions dictate.

### **23.5 Student Prerequisites**

1. SDI Open Water Scuba Diver or equivalent.
2. Minimum age 18, 15 with parental consent.

### **23.6 Course Structure and Duration**

#### **Open Water Execution:**

1. Two open water dives are required with complete briefs and debriefs by the instructor.
2. The Dive plan must include surface interval, maximum no decompression time, etc. to be figured out and logged.
3. This is a non-overhead environment course.

#### **Course Structure:**

1. SDI allows instructors to structure courses according to the number of students participating and their skill level.

### **23.7 Administrative Requirements**

#### **Administrative Tasks:**

1. Collect the course fees from all the students.
2. Ensure that the students have the required equipment.
3. Communicate the schedule to the students.
4. Have the students complete the:
  - a. *SDI Liability Release and Express Assumption of Risk* Form
  - b. *SDI Medical Statement* Form.

#### **Upon successful completion of the course the instructor must:**

1. Issue the appropriate SDI certification by submitting the *SDI Diver Registration* Form to SDI Headquarters or registering the students online through member's area of the SDI website.

### **23.8 Training Material**

#### **Required Material:**

1. *SDI/TDI Sidemount Student Manual* or eLearning.
2. *SDI/TDI Sidemount Instructor Guide*.

### **23.9 Required Equipment**

1. Cylinder(s), volume appropriate for planned dive, and student gas consumption.
2. Regulators appropriate for the cylinder configuration with a pressure gauge on each first stage and a total of two second stages.
3. Buoyancy compensator device (BCD) with power inflator appropriate for Sidemount configuration.
4. Exposure suit, adequate for diving environment.
5. Mask and fins.
6. Dive computer.
7. Compass.
8. Rescue signal.

### **23.10 Approved Outline**

Instructors may use any additional text or materials that they feel help present these topics.

The following topics must be covered.

1. Gas management utilizing independent cylinders.
2. Equipment considerations:
  - a. Cylinder options.
  - b. Regulator options.
  - c. Buoyancy compensator device (BCD)/harness options.
  - d. Proper weighting.
  - e. Equipment configurations.
3. Communication:
  - a. Hand signals.
4. Problem solving:
  - a. Gas-sharing.
  - b. Gas hemorrhages.
5. Water entries:

- a. Shore.
  - b. Boat.
6. S-Drills (specific to Sidemount).

### ***23.11 Required Skill Performance and Graduation Requirements***

**Students are required to successfully complete the following:**

**Land drills:**

1. May be performed at the instructor's discretion.

**In-water skills during open water dives:**

1. Plan dive.
2. Test and check all equipment (depth gauges, bottom timers/watches, and computers).
3. Familiarization with area.
4. Descend to the planned depth and do not exceed any pre-planned limits.
5. Demonstrate the ability to safely manage gas.
6. Monitor depth/time/air consumption, figure all times on slate.
7. Demonstrate ability to control buoyancy.
8. Attaching Sidemount cylinders while:
  - a. Out of water.
  - b. On the surface, standing on bottom.
  - c. On the surface, in water too deep to stand.
  - d. At depth.
9. Perform regulator switches.
10. Perform safety stops.

**In order to complete this course, students must:**

1. Perform all land drills and open water dive requirements safely and efficiently.
2. Demonstrate mature, sound judgment concerning dive planning and execution.
3. Log all dives.