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10. Deep Diver

10.1 Introduction

The purpose of this course is to provide the necessary training to plan and execute dives that are outside the range of depths that are experienced during an SDI Open Water Scuba Diver course, specifically beyond 18 metres / 60 feet and to a maximum depth of not greater than 40 metres / 130 feet.

10.2 Who May Teach

An active SDI Instructor that has been certified to teach this specialty

10.3 Student to Instructor Ratio

Academic

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

Confined Water (swimming pool-like conditions)

1. N/A

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

- 1. A maximum of 4 students per instructor; it is the instructor's discretion to reduce this number as conditions dictate
- 2. The instructor has the option of adding 2 more students with the assistance of an active assistant instructor or diversater
- 3. The total number of students an instructor may have in the water is 8 with the assistance of 2 active assistant instructors or diversaters

10.4 Student Prerequisites

- 1. SDI Open Water Scuba Diver, SDI Junior Open Water Scuba Diver, or equivalent
- 2. Minimum age 18, 10 with parental consent

10.5 Course Structure and Duration

Open Water Execution

- 1. Two dives are required with complete briefs and debriefs by the instructor
- Dive plan must include surface interval, maximum no-decompression time, etc. to be figured out and logged
- 3. Divers between the ages of 10 and 15 cannot exceed 21 metres / 70 feet

Course Structure

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



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2. This course may be combined with the SDI Computer Diver Specialty, and only that specific specialty,

10.6 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 this specialty 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

10.7 Training Material

Required Material:

- 1. SDI Deeper Diving With Dive Computers Student Manual
- 2. SDI Deeper Diving With Dive Computers Scuba I.Q. Review
- 3. SDI Deeper Diving With Dive Computers Instructor Guide

10.8 Required Equipment

Basic open water scuba equipment as described in section three of this manual

10.9 Approved Outline

Instructors may use any additional text or materials that they feel help present these topics. The following topics must be covered during this specialty:

- 1. Diving Tables and Computers
 - a. History of dive tables and computers
 - i. No-decompression
 - ii. Usage of the decompression schedule according to your computer
 - iii. Safety stops
 - b. Practical problem solving
- 2. Equipment
- a. Specialty equipment for deep dives
- i. Cylinders, different sizes
- ii. Regulators
- iii. Buoyancy compensator device (BCD)
- iv. Lift bags



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- v. Reels
- vi. Redundant gas supplies
 - b. Physics and physiology for deep divers
- i. Special considerations for pressures greater than 3 atmospheres (ATA)
 - 1. Air consumption
 - 2. Carbon dioxide (CO₂) factors
 - 3. Nitrogen narcosis
 - 4. Oxygen (O₂) toxicity
 - 5. Decompression sickness
- 3. Emergency Procedures for Deep Divers
 - a. Usage and techniques for safety cylinders
 - b. Recompression chamber listing for area
- 4. Review of First Aid
 - a. Oxygen (O₂) treatment
 - b. Treat for shock

10.10 Required Skill Performance and Graduation Requirements

Students are required to successfully complete the following:

- 1. Open Water Dive 1
 - a. Test and check all equipment, i.e. depth gauges, bottom timers/watches and computers
 - b. Familiarization with area
 - c. Descend to planed depth and do not exceed any pre-planned limits
 - d. Dive according to plan at a depth limited to 30 metres / 100 feet for first dive
 - e. Ascend to safety stop
- 2. Open Water Dive 2
 - a. Monitor depth/time/air consumption, figure all times on slate
 - b. Descend to planed depth and do not exceed any pre-planned limits
 - c. Execute a simulated emergency that is to be assigned underwater by the instructor
 - d. Dive according to plan at a depth limited to 40 metres / 130 feet
 - e. Ascend to safety stop