



8. TDI – Advanced Wreck Instructor Course

8.1 Introduction

Through advanced techniques, this course will instill a level of comfort and discipline allowing the instructor to conduct wreck courses with a greater margin of safety, productivity and enjoyment. This program includes penetration skills and techniques. Depths shall not exceed the level in which the Instructor is trained and competent, but in no case shall the maximum depth in this program exceed fifty five (55) msw / one hundred eighty (180) fsw. The objective of this course is to train Instructors in the proper techniques, equipment requirements and hazards of teaching wreck diving.

8.2 Qualifications of Graduates

Upon successful completion of this course, Instructors may engage in wreck diving instruction so long as:

1. The diving activities approximate those of training.
2. The areas of activities approximate those of training.
3. Environmental conditions approximate those of training.

8.3 Who May Teach

Who may teach this course:

1. Any active Advanced Wreck Diving Instructor Trainer may teach this course.

8.4 Student – Instructor Ratio

Academic:

1. Unlimited, so long as adequate facility, supplies and time are provided to insure comprehensive and complete training.

Confined Water (Swimming pool-like conditions):

1. N/A

Open Water (Ocean, lake, quarry, spring, river or estuary):

1. A maximum of four (4) students per Instructor. However, it is the instructor's discretion to reduce this number as conditions dictate.



8.5 Student Pre-Requisites

The student must:

1. Be a minimum age of twenty one (21).
2. Show Proof of minimum certification as a TDI Decompression Procedures Diver or equivalent.
3. Show proof of minimum certification as a TDI Advanced Wreck Diver or equivalent.
4. Show proof of minimum certification as a TDI Advanced Nitrox Instructor or equivalent.
5. Show proof of two hundred (200) logged dives
6. Have a minimum of fifty (50) logged wreck dives.
7. Provide proof twenty five (25) penetration wreck dives.
8. Must have certified ten (10) students in SDI Wreck Diver or equivalent.

8.6 Course Structure and Duration

Open Water Execution:

1. Six (6) dives with a minimum accumulated bottom time of one hundred (100) minutes.
2. Only two (2) dives from Advanced Wreck course may be credited towards the total dives required for Advanced Nitrox, Decompression Procedures, Extended Range or Entry Level Trimix.

Course Structure:

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

Duration:

1. The minimum number of classroom and briefing hours is eight (8).

8.7 Administrative Requirements

The following is the administrative tasks:

1. Collect the course fees from all the students.
2. Ensure that the students have the required equipment.
3. Communicate the training schedule to the students.
4. Have the students complete the Liability Release and Medical history forms.
5. The instructor must review the liability Release and Medical Forms before starting on the course.

Upon successful completion of the course the Instructor must:

1. Complete the Student Registration Form and send the Registration Form to TDI HQ.
2. Award Card.

8.8 Required Equipment

The following are required for this course:

1. TDI Standards and Procedures Instructor Manual.

The following equipment is required for each student:



1. Primary Cylinder(s)
 - A. Cylinder volume appropriate for the planned dive and candidate gas consumption rate.
 - B. Dual outlet valve or manifold required.
 - C. Labeled in accordance with TDI Standards.
2. Travel or decompression cylinders as required by dive sites.
3. Regulators
 - A. Primary and primary redundant required on all primary breathing cylinders.
 - B. Submersible pressure gauges are required on primary cylinder(s).
 - C. A sufficient length hose for air sharing leading from a primary or from a primary redundant is required.
4. Buoyancy Compensator(s) as appropriate for the open water environment.
5. Depth gauge and automatic bottom timer and / or dive computer.
6. Back-up Depth and Timing devices. Air decompression computers are allowed for use as depth and timing devices.
7. Back-up light system adequate for the open water environment.
8. Ascent reel with lift bag / surface marker buoy or up line
 - A. Adequate for the planned maximum depth.
 - B. Minimum of twenty three (23) / fifty (50) lb lift bag.
9. Exposure Suit adequate for the open water environment.
10. Two (2) Line Cutting Devices.
11. Underwater Slate.
12. Reels
 - A. Primary penetration reel.
 - B. Safety reel.
13. Options that the instructor trainer may require
 - A. Submersible dive tables.
 - B. Bail-out cylinder with regulator.
 - C. Jon-line.
 - D. Slate, compass, surface signaling device (flare, strobe, etc).

8.9 Required Subject Areas

The following topics must be covered during this course. Instructor Trainers must use the current TDI Standards and Procedures Instructor Manual. In addition, the Instructor Trainer may use any text or materials they feel best presents these topics.

1. Equipment Requirements
 - A. Redundant SCUBA.
 - B. Lights.
 - C. Reels.
 - D. Tools.
2. Procedures
 - A. Pre-dive.
 - B. Pre-penetration.
 - C. Exiting the confined space.
3. Hazards of Wreck Diving
 - A. Disorientation.



- B. Reduced visibility.
 - C. Entrapment.
 - D. Entanglement.
 - E. Environmental.
 - F. Loss of gas supply.
 - G. Line traps.
 - H. Separated buddy teams.
- 4. Penetration Lines
 - A. Types.
 - B. Proper use.
 - 5. Research and Locating
 - A. Local regulations.
 - B. Sources of information.
 - C. Tools.
 - D. Surveying.
 - 6. Contingency Planning
 - A. Chamber locations and evacuation.
 - B. Communications.
 - C. Emergency gases.

8.10 Required Skill Performance and Graduation Requirements

The following skills must be completed by the Instructor candidate (all dives should be conducted with a maximum depth no deeper than the skill level of the instructor candidate)

- 1. Properly analyze all gas mixtures to be used.
- 2. Demonstrate adequate pre-dive planning
 - A. Limits based on personal and team gas consumption.
 - B. Limits based on oxygen exposures at planned depths with actual mixes.
 - C. Limits based on nitrogen absorption at planned depth with actual mixes.
- 3. Properly execute the planned dive within all pre-determined limits.
- 4. Demonstrate the proper navigational techniques for the specific dive.
- 5. Demonstrate an out of air sharing with a sufficient length hose through a restriction.
- 6. Demonstrate the proper procedures for switching and isolating a malfunctioning regulator.
- 7. Demonstrate the proper techniques for locating a lost penetration line.
- 8. Deployment of a lift bag or an up-line for decompression.
- 9. Silt-out procedures.

In order to complete this course, students must:

- 1. Demonstrate mature, sound judgment concerning training, dive planning and execution.
- 2. Demonstrate proficiency in every skill required in the TDI Advanced Wreck Diver course.
- 3. Demonstrate proficiency in teaching the TDI Advanced Wreck Diver Program.
- 4. One graded presentation on an Advanced Wreck topic.