



## **Introduction To Technical Diving (Intro To Tech)**

### Overview

This course is designed to give the open water or advanced diver an opportunity to improve their skills, knowledge and equipment configuration, thereby increasing their safety and efficiency. This course is also intended to prepare the advanced diver for the rigors of technical diver training and to introduce them to NTEC (NAUI Technical Equipment Configuration).

### Qualifications of Graduates

Graduates are considered competent to enter into a NAUI Technical course as long as all other prerequisites are met. This course gives the open water recreational diver the ability to increase their confidence and skills while remaining within no-decompression limits and by utilizing streamlined and efficient equipment configurations, divers will have the freedom to improve their skills. These divers will be more skilled, aware and responsible. Improving non-technical skills and techniques and building diver confidence are the goals of this course.

### Prerequisites For Entering The Course

- Minimum age of 18
- Minimum certification of NAUI Scuba Diver and NAUI Nitrox Diver or equivalent.
- Proof of 25 logged dives with at least 5 on EANx
- Must be able to meet NAUI swim requirements for Scuba Diver

### Course Duration

- Classroom hours – 5 are estimated
- Open water dives – 4 minimum. No dives will exceed 60 fsw (18 msw) in depth. Dives may be in single and/or double tank configuration with no overhead environment.

## Equipment Requirements

- Twin cylinders with isolation manifold or single cylinder with "H" valve
- 5 to 7 foot primary regulator hose, with short backup regulator hose and backup regulator hung around neck on a necklace (bungee or surgical tubing)
- Single SPG on left side, clipped off on waistband, hose short enough to stay close to body
- Wing style BC (backplate and wing), with hard plate preferred, but soft harness (Transpac or IQ Pack for example) are acceptable
- Depth gauge, and timing device, i.e., dive computer or bottom recorder
- Compass
- Slate or waterproof paper and pencil
- Dive knife/tool
- Emergency signaling device
- Waterproof dive tables
- Minimum of one 50 lb/23 kg lift bag and one line reel
- Cylinders and regulators properly cleaned and labeled as required for the breathing gas mixtures involved, with a separate submersible pressure gauge for each gas system used

## Skill Requirements

- Analyze your own breathing gas mixture
- Plan and safely execute each dive
- Isolate and switch over from a malfunctioning regulator
- Air sharing on the long hose through a simulated restriction
- Underwater navigation
- Deployment of a lift bag/surface marker buoy
- Simulated diver rescues involving Out of Gas scenarios and Oxygen Toxicity
- Buoyancy and trim control
- Propulsion techniques such as frog kick, modified flutter kick, helicopter turns, and back-downs
- Team diving
- S-Drills (Safety drills)

## Academic Topics

- NAUI RGBM Theory and tables
- Physics, physiology and medical aspects as applied to planned decompression diving, with special emphasis on mechanisms of bubble formation
- Inert gas perfusion and diffusion
- Equivalent narcosis depth (END)
- Advantages of oxygen and oxygen enriched gas mixtures for decompression
- Oxygen toxicity
- Dive time and gas management