TEC 45 TRAINING DIVE 3

Key Standards

Environment: Conducted in open water

Minimum Depth: 18 metres/60 feet

Maximum Depth: 30 metres/100 feet

Decompression: No decompression dive that simulates an accelerated decompression dive with at least four stops with a total simulated decompression time of not less than 18 minutes.

Ratio: 4:1, 6:1 with one or more certified assistants

Skills

To successfully complete this training dive, students must be able to:

1) Working in a team, plan a simulated, accelerated four stop decompression dive (single gas switch) based on information (simulated depth, bottom time, gases, etc.) provided by the instructor.
2) Working in a team, assemble and inspect the standardized technical diving rig (or sidemount) including a stage/deco cylinder, following the previously described rigging philosophies and to meet individual/environmental needs.
3) Independently don a stage/deco cylinder at the surface in water too deep in which to stand.
4) As part of a team, conduct a bubble check at the surface or just below the surface
5) As part of a team, conduct a descent check on the bottom.
6) Perform the gas shutdown drill within 60 seconds (40 in sidemount)
7) Swim at an elevated pace for two to four minutes at a level depth, noting time, depth, and air pressure information for determining a heavy work SAC rate.
8) Respond properly to impromptu emergency drills based on previously learned skills, as presented by the instructor.
9) As part of a team, deploy a lift bag/DSMB and ascend along its line to the first stop of a simulated accelerated decompression while neutrally buoyant.
10) Demonstrate managing a drifting decompression using a lift bag/DSMB after primary BCD failure by ascending, establishing neutral buoyancy and beginning a simulated accelerated neutrally buoyant decompression with a deepest stop not shallower than 12 metres/40 feet, then simulating primary BCD failure by switching to the backup buoyancy system at 10 metres/30

feet, using the backup buoyancy system for the rest of the dive, including making a NO TOX gas switch to simulated oxygen at 6 metres/20 feet, air breaks, and following the assigned deco schedule while not varying from the stop depths by more than .5metres/1.5 feet.

11) After an interval breathing from a deco cylinder, as designated by the instructor, or at 20 minutes (whichever is less) during a simulated decompression, conduct an air break, then NO TOX switch back to the deco cylinder and complete the decompression.
12) During a simulated neutrally buoyant accelerated decompression dive, simulated switching or actually switch (depending upon gases/computers used) a multigas computer or computers as appropriate for NO TOX gas switches and air breaks.
13) During a simulated neutrally buoyant decompression dive, simulate switching or actually switch (depending upon gases/computers used) a multigas computer or computers as appropriate for NO TOX gas switches and air breaks.
14) While using the backup buoyancy system to maintain positive buoyancy at the surface, independently remove a stage/deco cylinder in water too deep in which to stand.
15) Demonstrate gas/time/depth awareness throughout the dive by a) signaling the instructor and team mates upon reaching the agreed turn point of the technical dive plan (not actual dive plan) and b)writing the depth, time and SPG reading each 15 minutes throughout the dive.