

TDI Decompression Procedures Diver - Skills

Land Drills

Skills review from previous TDI skills requirements

Selection and preparation of equipment suitable for soft overhead environment

Conduct team oriented drills (buddy checks) for lift bag deployment

Conduct team oriented drills (buddy checks) for gas switching procedures

Gas matching among buddy team

Demonstrate familiarity with basic hand signals

Demonstrate adequate pre-dive planning

A.Limits based on personal and team gas consumption.

B.Exact dive and decompression profile.

Inwater Drills

Demonstrate buoyancy control (ability to hover at fixed position in water column without moving hands or feet)

Show good awareness of buddy and other team members through communications, proximity and team oriented dive practices

Demonstrate comfort swimming on surface and at depth carrying single decompression stage bottle

Demonstrate ability to drop and retrieve single decompression cylinder while maintaining position in the water column

Demonstrate ability to deploy a lift bag solo and as member of team

Demonstrate controlled / staged ascent on lift bag / emergency ascent line (lost ascent line)

Remove and replace mask (deploy backup mask)

Demonstrate appropriate reaction to gas hemorrhage from manifold or first stage, SPG and primary regulator

React to BC inflator malfunction (disconnect LP hose, dump gas and orally inflate BC/Wing to neutral buoyancy)

Demonstrate ability to confirm gas switch(es) at depth with buddy/team members

Buddy breathing deco gas for at least one minute

Switch to back-up mask (remove and replace mask)

Demonstrate appropriate reaction to simulated free-flowing deco regulator

Demonstrate appropriate modifications to deco schedule in decompression emergency (over time, over depth) (to be simulated)

Demonstrate tired diver tow at depth and on surface (30 meters / 90 feet lateral each)

Complete a horizontal breath hold swim at depth for 15 meters / 45 feet.

Properly execute the planned dive within all pre-determined limits

A.Assembly of diver carried equipment.

B.Proper descent / ascent rates.

C.Proper staged stop procedures.

D.Monitoring of decompression status equipment (tables, computers, equipment).

Contingency Situations and Problem Solving (as appropriate by instructor)

A. Omitted decompression.

B. Extended bottom time profiles with increased decompression and re-calculated schedules.

C. Failure to deploy lift bag and reel.

D. Missed up-line or missed boat anchor.

E. Loss of decompression gas.

A safety stop of at least three (3) minutes shall be conducted on all No-Decompression dives and proper staged decompression stops whenever and wherever mandated.

Demonstrate (simulated) emergency gas sharing at a stationary depth not to exceed thirty (30) msw / one hundred (100) fsw.

Demonstrate emergency deployment of a backup regulator or bail-out scuba system containing bottom mix at a depth not exceeding thirty (30) msw / one hundred (100) fsw.

Demonstrate the proper deployment, management and use of the bottom mix, decompression mix and travel mix (if used), including but not limited to:

A. Conservative gas management.

B. Depth control to avoid descending too deep for mix.

C. Show appropriate and timely responses to instruction / signals from the instructor and demonstrate buoyancy control and awareness throughout the dive.