

TDI Extended Range Diver – skills

Land Drills

Skills review from previous TDI skills requirements

Demonstrate familiarity with basic and intermediate hand signals

Selection and preparation of equipment suitable for soft overhead environment with long decompression obligations

Conduct team oriented drills for lift bag deployment and gas switching procedure
Drills for buddy rescue

Drills for Toxed diver / Unconscious diver ascent

Properly analyze all gas mixtures to be used.

Demonstrate adequate pre-dive planning

A.Limits base on personal and team gas consumption.

B.Limits based on oxygen exposures at planned depths for actual mixes.

C.Limits based on nitrogen absorption at planned depths for actual mixes.

Use START* before every dive

Stress analysis and mitigation

Gas matching among buddy team

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

Inwater Drills

Demonstrate competence managing two stage cylinders (either two deco gas or one deco and extra bottom gas) including drop and recovery while maintaining position in the water column

Demonstrate ability to confirm gas switches at depth with buddy/team members

Demonstrate lift bag deployment from depth and use of bag as back-up buoyancy device

Demonstrate air-sharing ascent from depth while one member of buddy team is without mask (donor and recipient)

Create contingency decompression schedule after simulated loss of decompression gas

Remove and Replace mask (deploy back up mask)

Demonstrate tired diver tow at depth and on surface (30 meters lateral)

Complete a horizontal breath-hold swim at depth for 15 meters with mask off or blacked out

Properly execute the planned dive within all pre-determined limits.

Demonstrate the proper procedures for switching and isolating a malfunctioning regulator. This skill is to be performed at a depth no deeper than forty (40) msw / one hundred thirty (130) fsw.

Demonstrate the proper navigational techniques for the specific dive.

On two (2) dives, demonstrate an ascent with ascent reel and lift bag and perform staged decompression.

On one (1) of the dives, tow a simulated unconscious diver, while at depth, nine (9) meter / thirty (30) feet to ascent line and simulate an emergency rescue ascent technique.