

Technical Diving

Technical Diving can be defined as and includes one or more of the following: diving beyond 40 metres, required stage decompression, diving in overhead environment beyond 40 linear meters of the surface, accelerated decompression, and/or the use of variable gas mixtures during the dive. Diving of this nature requires extensive training beyond the scope of recreational diving.

For many, the reason for diving deeper is to explore the multitudes of shipwrecks that scatter our oceans. Sydney has numerous deep wrecks, and a wreck graveyard just north of the city, so once technically certified, you can join us and explore these sunken treasures.

Peter Szyszka is the primary technical instructor at PLUNGE DIVING. His passion for deep diving is reflected in his extensive experience at depths deeper than 40 meters. Seen among the technical diving community in Australia as an expert in technical diving, as well as technical equipment and technical training, you are guaranteed to get more than simply a course with Peter.

The following are the TDI Technical Training programs that we run:

nitrox
advanced nitrox decompression procedures
extended range
entry level trimix

trimix
nitrox gas blender
trimix gas blender
oxygen service technician

TDI Nitrox

This is the entry-level certification for recreational divers wishing to utilise enriched air Nitrox (EAN) as a breathing gas. The objective of this course is to train divers in the benefits, hazards and proper procedures for using Nitrox mixes from 22% up to 40% oxygen content.

What do I need to start?

- Be at least 15 years of age
- Open Water certification
- A minimum of 10 logged dives

Course Structure:

Two evening theory sessions and 2 open water dives.

TDI Advanced Nitrox

The Advanced Nitrox course is an extension of the Nitrox diver course and examines the use of enriched air Nitrox (EAN) 21% through 100% oxygen for depths up to 45 meters. The objective of this course is to train divers in the benefits, hazards and proper procedures for utilising mixes up to 100% oxygen for dives not requiring staged decompression.

What do I need to start?

- Be at least 15 years of age
- At least 25 logged dives
- TDI Nitrox Diver certification or equivalent

Course Structure:

- Two evening theory sessions

- 4 Open Water dives with a minimum accumulated bottom time of 100 minutes

TDI Decompression Procedures

This is the entry-level course to twin-tank diving. The Decompression Procedures course examines the theory, methods and procedures of planned stage decompression diving. This program is designed as a stand-alone course or it may be taught in conjunction with such TDI courses as Advanced Nitrox Course or Extended Range Course.

The objective of this course is to train divers how to plan and conduct a standard staged decompression dive not exceeding a maximum depth of 45 meters unless taught in conjunction with the Extended Range Course. The most common equipment requirements, gear set-ups, and decompression techniques are presented. The use of Enriched Air Nitrox mixes for decompression is permitted providing the gas mix is within current certification levels.

What do I need to start?

Be at least 18 years of age

Advanced Open Water certification

At least 50 logged Open Water dives

Course Structure:

- Two evening theory sessions

- 4 Open Water dives

TDI Extended Range

Just as it's name suggests, the Extended Range Course trains you to dive a little deeper. It provides training and experience in the proper techniques, equipment requirements and hazards of deep air diving required to competently utilise air for dives up to 55 meters that require staged decompression using nitrox mixes.

What do I need to start?

Be at least 18 years of age

TDI Advanced Nitrox and TDI Decompression Procedures (or

equivalent)

Minimum of 100 logged dives of which 25 must be deeper than 30 meters.

Course Structure:

- Two evening theory sessions
- 6 dives with a minimum accumulated bottom time of 100 minutes
- All dives deeper than 30 meters with 4 dives deeper than 40 meters
- 2 dives may be credited from previous training

TDI Entry Level Trimix

This course is the first step in using helium. The Entry Level Trimix Course provides the training required to competently and safely use breathing gases containing helium for dives that require staged decompression, using Nitrox for decompression, to a maximum depth of 60 meters.

What do I need to start?

Be at least 18 years of age

TDI Advanced Nitrox and Decompression Procedures

Minimum of 100 logged dives, of which 25 must be deeper than 30 meters.

Course Structure:

- 3 evening theory sessions
- 4 decompression dives with a minimum accumulated bottom time of 100 minutes
- 2 of the dives deeper than 40 meters
- 2 dives may be credited from the TDI Extended Range course or equivalent

TDI Advanced Trimix

The Advanced Trimix Course goes that little deeper and looks at training divers in the benefits, hazards and proper procedures for using custom oxygen/helium/nitrogen mixtures as breathing gases on dives that require staged decompression using nitrox mixes, to a maximum depth of 90 meters.

What do I need to start?

Be at least 18 years of age

Extended Range Diver or Entry Level Trimix Diver or equivalent

At least 150 logged dives

Course Structure:

- 2 evening theory sessions
- 4 decompression dives with a minimum bottom time of 100 minutes
- At least 2 dives deeper than 55 meters

TDI Nitrox Gas Blender

The Nitrox Gas Blender course trains you to competently and safely blend Nitrox gas for recreational scuba.

What do I need to start?

Be at least 18 years of age

Course Structure:

- 2 hour theory session
- Blend and analyse 5 cylinders of Nitrox gas

TDI Advanced Gas Blender

The Advanced Gas Blender course trains you to prepare different mixes of high quality scuba gases, such as trimix.

What do I need to start?

Be at least 18 years of age

Nitrox Diver certification

TDI Nitrox Gas Blender certification or equivalent

Course Structure:

- 6 hours of theory

- Blend and analyse 5 cylinders of Nitrox and 3 cylinders of Trimix

TDI Oxygen Service Technician

The O2 Service Technician course teaches you to prepare scuba equipment for using technical diving gases by training you in the proper procedures required for oxygen equipment cleaning.

What do I need to start?

Be at least 18 years of age

Nitrox Diver

TDI Nitrox Gas Blender

Regulator Service Technician certification

Course Structure:

- 6 hours of instruction and demonstration

- Successfully service a cylinder valve and regulator for EAN use.

