



TDI Advanced Gas Blender

Course Objectives:

With the background knowledge acquired in the previous Nitrox Gas Blender course, in this course you will further develop practical and theoretical proficiency in custom gas blending for technical divers which includes helium. The subjects discussed in this course will cover formulas, gas analysis, blending equipment, blending systems and oxygen handling.

Upon the completion of this course, candidate will be able to safely and competently prepare high-quality oxygen and helium based gases, suitable for technical diving.

Prerequisites: 18 years old and TDI Nitrox Gas Blender or equivalent

Duration: 1 day

Course fee: See pricelist

Course Outline:

1. Responsibility of the Gas Blender
2. Gases of Diving
 - a. Oxygen
 - b. Nitrogen
 - c. Helium
 - d. Other gases
3. Oxygen Handling
 - a. Oxygen hazards
 - b. Causes and prevention of fire
 - c. Oxygen system design
 - d. Local regulations
 - e. Oxygen compatible components
4. Gas Production Equipment
 - a. Compressors
 - b. Cylinders
 - c. Filtration systems
 - d. Gauges
5. Mixing Techniques
 - a. General considerations
 - b. Continuous blending systems
 - c. Membrane separation systems
 - d. Pre-mix systems
 - e. Partial pressure blending
6. Oxygen Analysis
 - a. Procedure
 - b. Oxygen analyzers
7. Cylinder Handling and Sign Out

