



# DiveRepairs.com

## Gas Blender

The gas blending courses teach you to blend using a variety of methods. A lot of work goes in behind the scenes to create the gas divers breathe. Being the blender is a key job at any busy dive facility and your work allows other divers to stay in the water, breathing the best gas for the tasks at hand. This can be seen as a proactive step towards increasing employability within the industry in addition to becoming a safe and competent gas blender.



There are several course options for gas blender. The table below outlines the differences in key content.

<b>Course / Content</b>	<i>Nitrox (o2) Blending?</i>	<i>Trimix (o2 &amp; He.) Blending?</i>	<i>Oxygen Cleaning Procedures?</i>
PADI Tec Gas Blender	YES	NO	YES
PADI Trimix Blender	YES	YES	YES
TDI Nitrox Blender	YES	NO	NO
TDI Advanced Gas Blender	NO	YES	NO

For all gas blender programs, several blending methods are demonstrated and used with the advantages and disadvantages discussed. Hazards relating to handling of oxygen are covered and how to manage the risks associated with blending. For classroom sessions, a

demonstration unit gas booster is used for a breakdown on how and why they work. Manual gas calculations are shown in a simple way and electronic blending software can be compared.

The courses are all accompanied by a student manual and a USB resources drive. Upon successful completion, a PADI Tec or TDI certification is issued along with a DiveRepairs.com Certificate of Completion including a course transcript of topics covered.

**Prerequisites:**

- PADI Tec Gas Blender:
  - 18 Years Old
  - Enriched Air Diver or equivalent.
- PADI Tec Trimix Blender:
  - 18 Years Old
  - Enriched Air Diver or equivalent
- TDI Nitrox Gas Blender:
  - 18 Years Old
- TDI Advanced Gas Blender:
  - 18 Years old
  - Nitrox Gas Blender or equivalent
- (Recommended: *Compressor Operator*).

**Duration:**

- 1 - 2 Days, depending on chosen programs.

**Topics Covered:**

- About the advantages and disadvantages of different blending methodologies.
- To blend within one percent of the target mix.
- Analyser function and use.
- System design.
- How to build various blending systems (Partial Pressure, Continuous Flow, Panels).
- About the potential hazards related to handling oxygen, and how to manage those risks.
- Blending with Helium (Tec Trimix Blender and Advanced Gas Blender only).
- To demonstrate the steps for o2 cleaning equipment and the requirements for o2 service (PADI Tec Gas Blender and Tec Trimix Blender only).

**Cost:**

- PADI Tec Gas Blender, 12,500 PHP
- PADI Tec Trimix Blender, 18,000 PHP
- TDI Nitrox Gas Blender, 10,500 PHP
- TDI Advanced Gas Blender, 10,500 PHP

**Dates:**

- Run on an on-demand basis.

**Location:**

- Barretto (Subic Bay), Philippines.
- Training can also be provided on-site / on-board, please contact for further details and requirements.