

Gas Blender

- A) **Course:** Gas Blender
- B) **Course objective:** The objective of this course is to promote the correct handling of the various, breathable gasses commonly used for diving purposes. In particular, potential hazards, legal requirements and liability issues will be covered. The Blender should be able to prepare all appropriate gasses for his own and for other diver's use.
- C) **Pre-requisites:** minimum 18 years of age, Proof of a valid entry level diving qualification.
- D) **Course content/duration:** all theoretical and practical aspects of mixing diving gasses. Properties of the differing gasses, mixing methods, mixing calculations, general safety guidelines. Emphasis will be placed on developing a responsible attitude and awareness of legal requirements and regulations. Furthermore all currently possible techniques and equipment will be addressed. The instructor-to-student ratio is not limited.
- E) **Support material:** IART Gas Blender manual, Instructor manual and Instructor presentation materials.
- F) **Required equipment:** Oxygen analyser and O₂-clean tanks, decanting hoses, helium analyser, lap-top with appropriate software.
- G) **Limits:** n/a
- H) **Practical skills:** The student should be given ample opportunity to mix and analyse various gases under the direct observation of the Instructor. Particular emphasis should be placed on safe practices, especially when handling oxygen or gases with high oxygen content.
- I) **Certification requirements:** The participant demonstrates through completion of a written exam and the blending of TWO differing gasses the necessary level of knowledge. Should the participant demonstrate significant, safety-relevant shortcomings or incorrect attitude the instructor is obliged to bring performance to the required level through remedial training or to withhold certification. In accordance with IART quality control, the student and Instructor are required to fill in the training protocol form. The instructor must retain this form with the student file.
- J) **Certification:** IART HQ. After successful conclusion of the training the participant is issued an IART GAS BLENDER certification. This entitles the participant to mix all the gases commonly used for recreational diving.
- K) **Certification Renewal:** n/a