

SUMATIX emCCR User Course (level I)

The SUBMATIX SMS CCR / emCCR are unique, state-of-the-art, closed circuit rebreathers. They are designed and built for recreational diving only (with nitrox diluent to a maximum depth of 40 metres and to 100 metres for Trimix).

Submatix have adopted a “modular” approach to the development of their units. As improvements are made and new parts become available they are designed to fit existing components, allowing each user to update and modify his/her original unit.

Submatix have designed their 100 Series rebreather to allow the user to choose between a single or dual mix SCR version (the ST and XT) or a manual or manual and electronic CCR version (SMS and emCCR). This makes the unit one of the most versatile available.

Despite the simple approach, diving with either the SUBMATIX SMS or emCCR demands new skills from the diver and presents potential new problems. The IART unit-specific user course, combined with the use of the course manual, will prepare you with the knowledge and skills needed to safely dive the SUBMATIX SMS or emCCR within the limits set by the Level I standards

This course will prepare you to become a competent, disciplined and knowledgeable CCR diver who understands:

- ▶ The physiological principles behind rebreather diving
- ▶ The construction of the unit including assembly, disassembly, cleaning and maintenance
- ▶ The possible dangers and potential mistakes
- ▶ How to employ the best diving techniques with the unit
- ▶ How to rescue another rebreather diver

The training reflects the standards required by the manufacturer of the rebreather. IART is authorized by the manufacturer to conduct this training. The course manual is constantly revised and improved in consultation with the manufacturer to reflect new developments resulting from technical improvements or gained through dive experience. You will receive the current edition from your IART-Submatix Instructor.

Theory Presentation

- Includes review of nitrox theory, physics and physiology
- Familiarisation with all rebreather components including maintenance
- Dive planning and execution and emergency procedures
- IART rescue module
- A written exam concludes the theoretical development.

Practical training

- Unit preparation, pre-dive checks
- Disassembly, cleaning and disinfection
- Dive planning
- Dive techniques in confined water followed by open water environments
- Protocol in emergency situations
- Proof of successful completion of all required training exercises.