

## **ICE DIVER**

(Speciality diving under ice)

### **Intention of this course**

The Intention of this course is to offer sufficient knowledge to the diver for safe diving under ice.

Instruction by ProTec scuba instructor with speciality ice diving.

### **Training environment**

Any open water, safe for scuba diving, which fits the needs for ice diving:

Partly or fully closed, walk able ice sheet. Shallow water in the dive area, max. 20 msw. Enough visibility for natural orientation.

### **Prerequisites**

- Advanced diving skills (theory and sufficient practice) that should be proved to the instructor.
- Scuba Diver 1\* certification.
- Minimum age 15 years.

### **Accomplishment**

Handling UW lights, safety lines/reels, cold-water equipment. Learn and train how to dive at poor visibility, perform all safety rules for ice diving, orientation UW under ice and how to do in case of regulator icing.

Perform min. 2 ice dives for training. The speciality night diving and advanced navigation are recommended as pre-stages. If dry suit used, the handling with dry suits had to be learned before. (Do not merge specialities Dry Suit Diver AND Ice Diver in the same dive).

## **Theoretical lessons**

What means ice diving?

Entry and exit

- What is an appropriate place for entry and exit?
- The safety crew (on surface) and tasks of this group.
- Spare exits for safety
  - Emergency exit on shore (when and why? – search along depth profile)
  - Second exit close to the main exit.
- Secure entry and exit place, close after use.

Additional equipment

- UW lights –overview, pro and cons
- Protection against cold UW – wet & dry suit – what is adequate (\* just an overview – no dry suit course), accessories?
- Protection against cold on the surface, supplies.
- How and why does a regulator ice up? Counter measures (technique, relation air consumption – loss of pressure – loss of temperature, adequate and non adequate regulators, spare regulator)
- Navigation and reels

Behaviour

- How to find back?
- The Limits (no Deco-dives, Air supply 1/3 rule, recommended max. depth 20msw)
- Do not stress UW (marine) life! (Metabolism, interferences - consequences)
- Regulator icing –counter measures (switch off valve, use spare regulator,...)
- In case of losing reel or orientation (search pattern, how to find emergency exits)
- Hypothermia –realise, counter measures
- How to avoid icing on the surface (low temperature and wet equipment = icing)

## **Practical training**

- The proper assembling, adjustment and use of the equipment
- Entry and Exit (how to prepare, how to proceed)
- Use of reels
- Orientation
- Regulator icing (simulation only) – how to react



## INSTRUCTOR MANUAL DIVING PROGRAM

- Operation experience: Try to break through the ice shield from UW to surface (just try it once)
- UW signs and communication (also with surface crew by line)

### Courseware

Visit ProTec members area for any material / price list.

- Checklist