



# Sidemount Diver II (Tec, OW)



## Diver's Profile:

This is an experienced open water diver, having before-hand obtained a Sidemount Diver I certification who wants to further enhance his/her competence by using sidemount configurations in the technical diving area, but still in open water.

Another reason might be medical considerations (i.e. lumbar disc herniation)

## Aims & Objectives of the course:

This course is designed to give the advanced OW-diver and sidemount diver with a basic knowledge and skills the chance to enhance his sidemounting competence towards technical diving issues, such as use of Ntx, Tmx, stage tanks and complex activities within the team.

This is done by more complex training exercises, the addition of 1-2 stage tanks, exchange of tanks during the dive, decompression procedures, air-sharing within the team, handling of simulated emergency situations and rescue management.

This course- and competence level is a mandatory prerequisite for Sidemount Diver III (overhead).

## Content:

**Safety practices, procedures, conservation, advanced gas management utilizing independent cylinders, gas matching procedures to include dissimilar volumes, equipment considerations / modification (cylinder options, regulator options, buoyancy compensator / harness options, proper weighting, different configuration philosophies, trim, streamlining, problem management, task loading, psychological aspects, advanced rescue techniques, one-tank-ahead- and no-mount-configuration**

**Training is strictly limited to the OW environment!**

## Course Classification:

The Sidemount Diver II Course is an ADVANCED and TEC specialty diving course.

## Prerequisites and Requirements:

### a) Prerequisites

Age:	18 years
OW-certificate:	CMAS 2star Diver or equivalent (fulfilling EN 14153-2)
Previous Sidemount certificate:	Sidemount Diver I
Number of previous OW-dives:	50 of which 10 must have been made within 3 months prior to course
Number of previous SM dives:	20 of which 10 must have been made within 3 months prior to course
Other mandatory prerequisites:	Advanced Nitrox Diver (CMAS or equivalent) valid medical attest (fitness for diving), not older than SCD rules or national legislation require
Other <i>recommended</i> certificates:	Stage Tank Handling Course
Further requirements:	Equipment as requested under "Personal equipment"

### b) Course duration and structure

Min. duration: 2.5 days / 3.5 days (classroom and practical OW sessions may be separated up to 2 weeks to let students adapt and fine-tune their configuration and try some of the skill exercises for themselves first).

Min. classroom:	0.5 days (4 hrs)
Min. practical:	2.0 days / 3.0 days



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Min. number of training dives: 4 dives / 6 dives at 2 different sites (different entries/exits); depth range from 10-40m according to OW certification level of participants

### **c) Requirements for instructors and assistants**

Min. level for instructor: SCD Sidemount Diving Instructor I  
Min level for assistants: CMAS 3star Diver or equivalent (fulfilling EN 14153-3)  
+ Sidemount Diver II (SCD or equivalent) or higher  
+ 50 logged sidemount dives since Sidemount Diver II certification

### **d) Student : instructor ratios**

Max. student : instructor ratio classroom: 10:1  
Max. student : instructor ratio open water: 4:1 under optimal conditions (visibility, current); otherwise 2:1  
1 assistant accounts for max. 2 more students (under good conditions, otherwise max. 1 additional student per 1 assistant), but a maximum of 2 assistants are allowed to form a diving class together with the instructor in charge

### **e) Evaluation**

Theory exam: 25 questions (15 MC, 5 open text, 5 calculations); 80% passing score  
Exam should be done preferably after OW session 1  
Practical evaluation : Continuing and permanent evaluation based on standardized exercises. Min. passing score is C (on scale of A – E).

### **f) Training Environment/Gas**

Environment for training: any suitable OW site, near shore!  
Max. depth: according to certification level of participants; max. depths:  
CMAS 2star or equivalent: 30m nominal  
CMAS 3star or equivalent: 40m EAD or 50m nominal (regardless of mixture)  
Gas for training: air or any suitable Ntx or Tmx mixture accord. to depth, if students are certified accordingly  
Max. O<sub>2</sub> partial pressure: 1.40bar for bottom / 1.60bar for deco  
Stage decompression required: should be avoided as far as possible (only if OW certification allows for it)

### **g) Personal Equipment**

#### **Students**

- any suitable OW-diving suit (wet or dry), boots, gloves, hood
- standard OW masks, fins, instruments
- sidemount harness with some kind of BCD (integrated or separate); min. lifting capacity (volume): 16 liters (*final decision after positive weight test at surface*)
- 2 completely independent regulator rigs with SPG and requested inflator hoses for BC and dry suit (if any)
- each tank must be equipped with a submersible pressure gauge (electronic or mechanical)
- 2 primary tanks with mono-outlet valves; DIN outlets only; min size: 2 x 8 liters /200bar (steel, alu, steel-composite) or 3200 NL



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- 2 additional stage tanks of approx. equal size as primary tanks (preferably aluminum 80 cft or similar)
- 2 SMB (orange and yellow) if requested by law or local diving regulations
- *recommended: 1 long hose of approx 1.5m length (5 ft) in bright colour, to be carried on right tank*

## Course fees

Refer to the yearly training course schedule overview on the Swiss Cave Diving website.

## Course dates

By arrangement; course will be held with at least 2 participants.

All actual course dates: ref. to the yearly training course schedule overview on the Swiss Cave Diving website.

## Certification

- SCD double-sided C-card
- Wall certificate in A4-format

## Insurance

Is in the personal responsibility of each participant.

## Training/instruction competencies

none

## Quality Control

Compliant with SCD Standards and the relevant procedures.



Additional information: [www.swiss-cave-diving.ch](http://www.swiss-cave-diving.ch) or Beat Müller: [btmueller@bluewin.ch](mailto:btmueller@bluewin.ch)