

# HOLLIS EXPLORER

## RECREATIONAL REBREATHER

## AND ADVANCED REBREATHER

Overview

Prerequisites for the course

What will be covered throughout the course

- Modules
- Assembly & Pre/Post Care
- Diving Skills

Requirements for Successful Completion

Study Materials You Will Need

Equipment You Will Need

Costs

# COURSE OVERVIEW

The PADI/TDI Rebreather Diver course is an entry-level Semiclosed-Circuit Rebreather (SCR) course for diving within the accepted recreational envelope (no stop diving, and no overhead environments) to 18 metres/60 feet using the **Hollis Explorer** which meets the specifications appropriate for recreational divers. The PADI Advanced Rebreather Diver continues training for PADI/TDI Rebreather Divers who also have an Advanced Open Water Diver certification, qualifying them to dive as deep as 30 meters/100 feet.

This course description assumes doing the Recreational Rebreather and Advanced Rebreather as a combined course.

**NOTE:**

The two courses **can** be taught independently.

Recreational and technical diving differ with rebreathers, just as they do when using open-circuit technologies. It is important to understand the distinctions so you can understand which type of CCR/SCR diving you are interested in: Rebreather Diver course (recreational) or the Tec 40/Deco Procedures CCR Diver course (technical).

The biggest difference between recreational rebreather diving and technical CCR diving, at the entry level, relates to how divers respond to life-support related problems.

# PREREQUISITES

- 18 Yrs of Age
- 30 Logged Dives\*
- EANx Certification & Advanced O/W\*\*
- All Clearance and Medical forms completed.
  - a. Student Learning Agreement
  - b. Agency Liability Release and Express Assumption of Risk Form
  - b. Medical Statement Form
  - c. Hollis Liability Release Express Assumption of Risk Form
- Course Fees Paid

\* 25 Dives are required IF only doing the entry-level certification

\*\* The Advanced Course can be conducted in sequence with the SCR course and extra dives will be required

# WHAT WILL BE COVERED

## Overview of Rebreathers, SCR vs CCR

### Classroom (min 4 hrs)

- Basic Functions of CCRs and SCRs
- Physics (CO<sub>2</sub> & O<sub>2</sub> Consumption)
- Formula Work
- Specifics of Hollis SCR
- Rebreather Assembly (Hollis Unit)
- Equipment Considerations (Bailout & assembly)
- Pre-dive Check
- Diving Rebreathers
- Dive Planning
- Procedures
  - o Standard SOPs
  - o Bailout (onboard, offboard)
  - o Emergency Procedures
  - o Descent/Ascent
  - o Post Dive Procedures & Dissassembly
- Diving with Open Circuit Divers
- Support Issues
- Final Exams

### In Water (including confined water)

5 Dives min (5 ½ hrs bottom time)

At least 2 dives deeper than 60ft

Max 100 ft\*\*

\*Note: IF Additional Dives are needed to complete the Required Skills there will be an additional cost.

\*\* Max 130ft IF certified as a Deep Diver.

# REQUIREMENTS FOR SUCCESSFUL COMPLETION

The Following is a List of the Requirements that must be successfully completed in order to receive your Certification

- Satisfactorily complete the Hollis Rebreather Exam
- Satisfactorily complete the PADI/TDI Rebreather Exam
- Complete all open water requirements safely and efficiently
- Demonstrate mature, sound judgment concerning dive planning and execution
- Complete the Hollis Sport Rebreather Statement of Skill Competency

You will be assessed on a number of skills involving:

## Land Drills

- Dive Planning
- Gas Analyzing
- Tank Labeling
- Calculating CNS, MODs, etc
- Programming Dive Computer
- Reviewing Regulator Switching Procedures, etc

## Pre Dive Drills

- Pre-Dive of Unit
- Use START\* before every dive
- Stress analysis and mitigation

# REQUIREMENTS FOR SUCCESSFUL COMPLETION

## In-Water Drills

- Exemplary Buoyancy Skills\*
  - Mask Clearing
  - Maintaining Depth during safety stops
  - Drysuit Use (if applicable)
- Self, Buddy, and Team Awareness
- Bubble Checks
- Demonstrate correct body position, appropriate trim, etc
- HUD Display & Wrist Display use
- Dive Control Parameter (DCP) Adjustment
- Loop Control Valve (LCV) adjustment
- Removing Water from the Loop
- Ability to work with Off-Board Bailout Cylinders
- Controlled Descents & Ascents
- Ability to Blow a D/SMB (self and team)
- React to various failures & warnings
- Proper BOV/Gas Switching
- Stay within the Dive Plan (depth, time, gas, etc)
- Emergency Decompression Procedures
- U/W Diver Rescue

\* Buoyancy control is considerably different when diving SCR/CCR.

# REQUIRED MATERIALS

## Required (Hollis)

- Hollis Explorer Manual
- Skills Checklist

## Required (PADI)

- PADI Rebreather Diver and Advanced Rebreather Diver Manual
- PADI Rebreather Pre-dive Checklist Slate
- PADI Recreational Rebreather Diving Key Skills Video
- Manufacturer's Checklist

## Required (TDI)

- TDI Diving Rebreathers Manual
- TDI Diving Rebreathers Knowledge Quest
- TDI Pre-Flight Checklist

# REQUIRED EQUIPMENT

Required

**Students are strongly encouraged to purchase their own Hollis Explorer Unit.**

*Rental Units MAY be available but only on a limited basis!*

- A bailout cylinder with 850 litres/30 cubic feet of free gas (or more), with open circuit regulator, SPG, rigging for attachment to the diver and a hose of sufficient length for sharing gas with another diver.
- Buoyancy compensator device(s) (BCD) adequate for equipment configuration
- Line cutting device
- Ascent reel with lift bag /surface marker buoy (DSMB) adequate for maximum planned depth
- Minimum of 12 kg / 25 lb lift bag
- Exposure suit adequate for the open water environment
- Underwater slates
- Cylinder and regulator properly labeled and cleaned as required for EAN mixtures
- Access to Scrubber Material of type specified by the Manufacturer
- **No modifications may be made to the rebreather's loop components or gas delivery systems, unless such modifications are specifically authorized by the manufacturer.**

# REQUIRED EQUIPMENT

## Recommended

- Backup Depth and Timing device
- Backup Mask
- Backup Reel
- Access to oxygen analyzer
- Primary Light

# COURSE FEES

- The Course Fee is \$900  
(remember... You pay for your training but your certification is earned)  
Pool time (up to 2 hrs) is included
- Unit Rental is \$350 for the 3 days
- All course prices do not include manual(s), E-learning programs, Gas / Scrubber fills, boat charter fees, ground transportation to sites or additional equipment rental  
(expect 3-5 fills for gas and scrubber)
- Any additional time required to master the required skills is \$50/dive
- IF Required for additional days, the rental of the Explorer is \$100/day

For pricing and information on purchasing a Hollis Explorer Sport Rebreather, contact Lorie Holmes at Diver's Warehouse.

**\*HST is applicable on all fees/Services**