DIVE MACHINE
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Tec 40 Equipment Requirements

The following lists the equipment that is required for the Tec 40 course.

- Any one of the following appropriately labeled and marked options:
- A single cylinder with a dual outlet valve (eg H valve or Y valve).
- A single cylinder with single outlet valve and a pony bottle. Pony bottle should have same gas as main cylinder, or be breathable at the deepest planned dive depth. The minimum size cylinder is one with a free gas capacity of 850 liters/30 cubic feet.
- Back mounted doubles with dual isolator manifold
- Two side mounted cylinders (side mount configuration)
- Two complete regulators, one with a two meter/seven foot hose for air sharing and one with SPG. Where two, unmanifolded cylinders are used (side mount or pony bottle), each regulator must have an SPG, carried and/or marked in such a way as to avoid confusion between them.
- Stage/deco cylinder with attachment hardware and a single second stage regulator and SPG. Note: It is recommended that each diver have and use individual stage/deco cylinders. However, it is acceptable for students to practice required skills with a shared cylinder.
- BCD with D-rings or other attachment points for a stage/deco cylinder. (See note below.)
- Two dive computers, or one computer with a backup timer and depth gauge with dive tables.
- Exposure suit appropriate for environment and dive duration (if students will use dry suits, they should be trained/experienced in their use in recreational diving prior to using them for tec training or diving).
- Argon dry suit inflation system (as needed for environment)
- Weight system (If required. Note: Students and staff should weight for the contingency of decompressing with near-empty cylinders.)
- Jon line (as needed for environment)
- Inflatable signal tube, whistle and/or other visual and audible surface signaling devices. Note that a sausage type DSMB may double for the inflatable signal tube.
- Reel and lift bag (bright yellow preferred) or DSMB. A suitable DSMB has sufficient buoyancy to help steady a diver during a drifting decompression, and is unlikely to spill when deployed from the underwater.
- Knife/cutting device and back up
- Slate
- Back up mask (optional)
- Compass
- Lights (optional – as required for dive environment)
- Backup buoyancy control – the student must have a reliable means for controlling buoyancy and maintaining decompression stops in midwater with a failed primary BCD. This is usually accomplished with a backup BCD (double wings) or, when using lightweight cylinders, the use of a dry suit is permitted.

  Note that in cases where the student is carrying a relatively small quantity of overall weight (e.g., a single cylinder only) one source of buoyancy control may be acceptable at the instructor's discretion, provided that there is a reliable alternative method for maintaining decompression stops, such as ascending along a mooring line or decompressing on the bottom if topography allows.

  Note: A lift bag/DSMB is not considered a reliable method of backup buoyancy control.

Dive Machine will be happy to advise you on the above equipment and configuration in readiness for your Tec Program.