



## **Tec 45-50 Equipment Requirements**

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

The following lists the equipment that is required (as noted) for the Tec 45 and Tec 50 course. Students in the Tec 40 course may use this equipment, but are only required to use the equipment specific to the Tec 40 course.

- Double cylinders of at least 12L or 70 cf each, with isolator manifold.
- The isolator manifold is not required for divers using side mount configuration.
- Divers known to have a very low gas consumption rate may, at the instructor's discretion, use lower capacity cylinders than specified here, provided the diver will have ample gas to assist a team mate in a gas sharing emergency.
- Primary and secondary regulators for back mounted double manifolds, one with two metre/seven foot hose for air sharing and one with SPG. Note: In side mount configuration, one regulator must have the two metre/seven foot hose, and both regulators must have an SPG.
- Stage/decompression cylinder(s) (1 for Tec 45, 2 for Tec 50) with regulator and SPG, with proper labels/markings.
- Tec diving BCD(s) and harness (back mount or side mount)
- Two multigas enriched air capable dive computers, or one multigas enriched air computer and a back up single gas computer with dive tables, or one single gas enriched air computer and 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 needed). Note: Students and staff should weight for the contingency of decompressing with near-empty primary cylinders and empty or absent stage/deco 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: 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.