

Scuba Tech Philippines - Technical Diving Readiness Assessment

The technical diving readiness assessment is a bench-mark for evaluating core technical diving skills. It is used to determine strengths and weaknesses in student diving skill-set as they progress through technical training. As an evaluation tool, it can also identify skill and core competency deficiencies that require remedial training before more progression can occur.

Max Dive Depth: 18m/60ft | Max Bottom Time: 60 min | Max Run Time: 81 min | Gasses: 21%, 50% and 100%

1. Demonstrate accurate technical dive planning, based on the above parameters, using decompression software to create a full decompression and gas management plan. Provide a full dive briefing to the instructor using the TecRec format: A Good Divers Main Object Is To Live (*Gas, Decompression, Mission, Oxygen, Inert Gas Narcosis, Thermal, Logistics*).
2. Perform a team pre-dive equipment check using 'Being Wary Reduces All Failures' to ensure that all equipment is in full working order and that all necessary equipment is carried for the dive.
3. Demonstrate an appropriate water entry with all equipment required for a 4 cylinder technical dive.
4. On descent, stop at 5m depth to perform a team bubble-check and modified S-drill whilst maintaining a neutral buoyancy hover, with no greater than $\pm 60\text{cm}$ deviation in depth, whilst retaining situational awareness and maintaining formation with team mate/s.
5. During descent, demonstrate an accurate 18m per minute descent rate, retaining situational awareness and maintaining formation with team mate/s. Conduct descent checks every 10m during the descent.
6. Demonstrate effective buoyancy and positional control by performing a 10 minute neutral buoyancy hover, with no greater than $\pm 30\text{cm}$ deviation in depth, whilst retaining situational awareness and maintaining formation with team mate/s.
7. Perform full primary shut-down protocol in under 60 seconds, with no greater than $\pm 60\text{cm}$ deviation in depth, whilst retaining situational awareness and maintaining formation with team mate/s.
8. Respond to simulated out-of-gas emergencies as both donor and receiver, whilst retaining neutral buoyancy with no greater than $\pm 60\text{cm}$ deviation in depth. Then perform a controlled team ascent at 9m per minute in proper formation with team mate/s.
9. Ascend from 18m with a simulated unresponsive, non-breathing, technical diver; retaining the regulator in their mouth, at an ascent rate of 9m per minute, then hold a 3 minute stop at 9m depth with no greater than $\pm 60\text{cm}$ deviation in depth.
10. Demonstrate the correct NOTOX protocol for gas switching (21% -50%) in under 30 seconds, whilst retaining neutral buoyancy with no greater than $\pm 60\text{cm}$ deviation in depth.
11. Remove and properly stage 2 decompression tanks on a line in under 30 seconds.
12. Recover and don 2 decompression tanks in under 30 seconds.
13. Demonstrate situational awareness (gas) by predicting gas supply ± 20 bar, when questioned by the instructor (*signal, then check and confirm*).
14. Demonstrate situational awareness (time) by predicting remaining bottom time ± 2 minutes, when questioned by the instructor (*signal, then check and confirm*).
15. Demonstrate situational awareness by accurately indicating the gas 1/3rd consumption turn-point to the instructor, without prompting, during the dive.
16. Deploy a lift-bag/DSMB to the surface, in under 60 seconds, with no greater than $\pm 60\text{cm}$ deviation in depth, whilst retaining situational awareness and maintaining formation with team mate/s.
17. Perform a 4 stop decompression ascent using 2 decompression gasses, at a precise ascent rate of 3m per minute, holding all stops with no greater than $\pm 60\text{cm}$ deviation in depth. Perform gas switches using NOTOX protocol (*1 minute allocated in run-time for each gas switch*).

Depth	Run	Stop Time	Gas
18m	60	60	21%
12m	64	1	50%
9m	66	2	50%
6m	70	3	100%
3m	80	10	100%
Surface	81	⬆	100%