

TDI Advanced Nitrox - Subjects Covered

Physics

A.Pressure review.

Physiology

A.Hypoxia.

B.Oxygen Toxicity

I.Whole body (OTU's).

II.Central Nervous System (CNS).

C.Nitrogen Narcosis.

D.Nitrogen Absorption and Elimination.

E. Carbon Dioxide Toxicity.

F. Carbon Monoxide Toxicity.

Formula Work

A.Best mix computations.

B.Maximum Operating Depth of mixture computations.

Equipment Considerations

A.Up to forty (40) percent oxygen content.

B.Above forty (40) percent oxygen content.

Dive Tables

A.Equivalent air depth with any table.

B.Computer generated tables.

Dive Computers

A.Mix adjustable.

B.O₂ integrated.

Dive Planning

A.Operation Planning

I.Gas requirements.

II.Oxygen limitations.

III.Nitrogen limitations.

Common Mixing Procedures (demonstrate one method)

A.Partial pressure blending.

B.Continuous blending.

C.Membrane separation system.

Decompression

A.EAN usage as a decompression gas i.e. 50/50, 80/20 etc.

B.Oxygen for decompression.

C.Advantages / disadvantages of multiple gas switches.