

# 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.  $O_2$  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.