

**CLASSROOM MODULE 1
QUIZ**

1. List ten conditions or factors that predispose divers to decompression sickness.

1)	6)
2)	7)
3)	8)
4)	9)
5)	10)

2. When were enriched Air mixtures first used commercially ?

3. What is SafeAir? _____

4. What is Nitrox I? _____

5. What is Nitrox 36 ? _____

6. What are the benefits of using SafeAir?

A) _____

B)

C) _____

D)

E) _____

F)

G) _____

CLASSROOM MODULE 2
QUIZ

1. What are the percentages of Nitrogen and Oxygen in the NITROX mixture called Air?

a)

b)

2. Fill in the numbers in the following chart.

ATA\Bar	fsw	msw	PSI	PO ₂	PN ₂
1	0	0		.21	.78
	33		29.4		1.56
	66	20		.63	
4	99		58.8		3.12
5	132	40	73.5		

3. Fill in the “CENT A DIVE” symptoms

C _____
E _____
N _____
T _____

A _____

D _____
I _____
V _____
E _____

4. What is the normal maximum exposure limit of Oxygen, expressed in ata's?

5. What gas that is present in our bodies, if allowed to increase, accelerates the “CENT A DIVE” symptoms?

**CLASSROOM MODULE 3
QUIZ**

1. Complete the following conversions:

2 ata = _____ fsw

2 Bar = _____ msw

4 ata = _____ fsw

4 Bar = _____ msw

7 ata = _____ fsw

7 Bar = _____ msw

2. Complete the following conversions:

47 fsw = _____ ata

16 msw = _____ Bar's

79 fsw = _____ ata

25 msw = _____ Bar's

262 fsw = _____ ata

85 msw = _____ Bar's

3. List the formulas for:

Depth Limit

Best Mix (Smallest PN₂)

CNS O₂ Dosage

4. What is the maximum PN₂ dosage recommended?

5. List the primary physiological and operational limitations considered in dive planning?

1)

3)

2)

4)

CLASSROOM MODULE 3
QUIZ (continued)

6. Fill in the maximum single dive time fO_2 the following dives.

55 fsw (17 msw) $fO_2 = .40$ Maximum time

75 fsw (23 msw) $fO_2 = .36$ Maximum time

110 fsw(33 msw) $fO_2 = .36$ Maximum time

125 fsw (38 msw) $fO_2 = .33$ Maximum time

To solve this problem we must first find the partial pressure of Oxygen and then use chart 2-4

**Classroom Module 4
QUIZ**

1. State the EAD formula.

2. Solve for EAD.

fsw	EAD	fO ₂	EAD	msw
58		.40		18
52		.33		16
113		.36		34
148		.29		45
105		.36		32

3. Why would we want to use the EAD formula?

4. What piece of information do we need in order to be able to switch between tables?

5. List the various ways of applying SafeAir mixtures:

1.	5.
2.	6.
3.	7.
4.	8.

CLASSROOM MODULE 5
QUIZ

1. What does "Oxygen clean" mean?

2. What does Oxygen service mean?

3. What is the maximum fO_2 that may be used on Oxygen clean equipment?

4. What external markings must be on cylinders entered into SafeAir service?

5. What information is recorded on the cylinder contents tag?

6. How often should an Oxygen analyzer be calibrated?

7. To be used as a primary analyzer how accurate must an Oxygen analyzer be?