Tec 40 Knowledge Development Two

Manual Supported Content

Study assignment: *Tec Deep Diver Manual,* pgs 64-64, Thinking Like a Technical Diver I, Tec Exercise 1.7

Manual Supported Content

Study assignment: *Tec Deep Diver Manual,* pgs 88-93 Introduction to Decompression Stop and Gas Switch, Extended No Stop Diving, Equivalent Air Depths (Continued) and Equivalent Narcotic Depths, Ideal Enriched Air for a Particular Depth, Determining Gas Supply and Reserve Requirements for Multiple Depths and Decompression stops (first page only); pgs 97-99 Desk Top Decompression Software Tec Exercise 2.2, Questions 1-8 & 10. Pg 157 down to "Example" on pg 158, Planning a Decompression Dive Using a Single Gas Computer.

Other Delivery Content, Tec 40-4

Study assignment: Tec 40 Handout 4

Other Delivery Content, Tec 40-5

Study assignment: Tec 40 Handout 5

Manual Supported Content

Study assignment: *Tec Deep Diver Manual,* pgs 101-107, Thinking Like a Technical Diver II, Team Diving II, Tec Exercise 2.3, pgs 109-113, Predive Check, Technical Diving Hand Signals, Tec Exercise 2.4, questions 1-3 and 9-15.

Manual Supported Content

Study assignment: *Tec Deep Diver Manual,* pgs 167, When to Make Cylinder Switches, pgs 162-166, Emergencies III, Tec Exercise 3.3

Tec 40 Knowledge Review Two

Please complete this review to hand in to your instructor. If there's something you don't understand, review the related material. If you still don't understand, be sure to have your instructor explain it to you.

1. Describe a suitable, rigged stage deco bottle "package."

2. Briefly list the guidelines regarding material and equipment compatibility using enriched air and oxygen. What do you risk if you fail to follow these guidelines?

3. Explain how you determine your required decompression stops using a single gas computer or table, and how to use switches to enriched air or oxygen to make the decompression more conservative.

4. What do you assume your END is with enriched air? Why?

5. What are the advantages and risks of using desk top decompression software?

6. What should you assume about every technical dive, and what should you take for granted?

7. What is your most important resource in a tec diving emergency, and what provides this resource?

8. What is the principle of your gas reserve?

9. What is the recall phrase for the seven segments of planning a tec dive, and what does the phrase stand for?

10. Why do all team members on a technical dive usually use the same gases?

11. What four markings should be on every cylinder used on a technical dive? Which should be easy to read by all team members while worn? Why are these markings required?

12. Who must check the pressure and oxygen analysis of every cylinder used for a technical dive?

13. What is the predive check recall phrase in tec diving? What does it stand for, and what steps does the predive check include? *Being Wary Reduces All Failures*.

14. What is your turn pressure if you have 190 bar or 2800 psi in your cylinders and your are using a reserve of one-third?

15. Describe how to perform a bubble check and a descent check.

16. The thumbs up means_____ .

17. What is the ideal position and stop depth level when decompressing? What is the most important skill you need for decompressing?

Student Diver statement: I've reviewed the questions I answered incorrectly or incompletely and I now understand what I missed.

Signature _____ Date _____