

Manual

Introduction vii

- How to Use the DSAT Tec Trimix Diver ix Manual
- Course Overview and Goals хi
- xii Your Obligations and Responsibilities
- xiii Diver Accident Insurance
- xiv Trimix Diving Risks
- xvi Limits of DSAT Tec Trimix Diver Training

Chapter ONE: 1 **Beyond Tec Deep Diver**

- 3 Introduction to Trimix Diving
- 4 Benefits of Diving with Trimix
- 4 Drawbacks of Trimix
- 5 Trimix Depth Ranges
- 6 Trimix Blending Overview
- 7 Analyzing Trimix
- 9 Equipment I - Rigged for Trimix Diving
- 10 Rigged for Trimix
- 11 Stage/Decompression Cylinders
- 14 Argon Inflation Systems
- 17 Techniques and Procedures I – Gas Switches
- 19 Handling Three or Four Deco Cylinders

- During Gas Switches
- 21 Decompression Stops
- 22 Emergency Procedures I
- 23 Decompression I - Desktop Decompression Software
- 25 Decompression Models
- 27 Gas Planning I – Gas Volume and Oxygen Exposure Planning
- 31 Team Diving I - Team Diving Benefits
- 32 Compatible Gases
- 33 Thinking Like a Trimix Diver
- 35 Simulation for Training
- 37 Preview: Practical Application One
- 38 Preview: Training Dive One
- 39 Knowledge Review – Chapter One

45 **Chapter TWO:** A Position of Distinction

- Equipment II Full Face Masks and 46 Multigas Computers
- Gas Planning II Properties of Helium, 51 ENDs, Choosing Gases, Hypoxic Blends
- 51 Helium As a Dive Gas

Table of CONTENTS





60 Hypoxic Trimix

63 Repetitive Dive Gas

65 Decompression II - Deep Decompression Stops, Air Breaks, Deco Gases and Ascents

65 Deep Stops

70 Air Breaks

71 Deco Gases 73 Ascents

76 Techniques and Procedures II – Travel Gas Handling

Emergency Procedures II – Lost Deco 78 Gases and Computer Failure

78 Loss of Decompression Gases

79	Multigas Trimix Computer Failure	107	Chapter FOUR:
80	Team Diving II - Safety/Support Divers		The End of the Beginning
82	Characteristics of a Support Diver	109	Thinking Like a Trimix Diver IV - The
83	Thinking Like a Trimix Diver II		Limits of Trimix Diving
85	Preview: Practical Application Two	110	Your Limits
86	Preview: Training Dive Two	112	Your Responsibilities as a Tec Trimix
87	Knowledge Review Chapter Two		Diver
		112	The Most Important Quality
91	Chapter THREE: Self Preservation	114	Equipment (II - Crush Depth
		115	Types of Crush Depth Failure
		116	Other Depth-Related Effects
93	Emergency Procedures III	117	Choosing Depth Rated Equipment
94	DCS Underwater	118	Preview: Practical Application Four
95	First Aid for Deceompression Illness	119	Preview: Training Dive Five
96	CNS Symptoms Underwater	120	Preview: Training Dive Six
98	Techniques and Procedures III -	121	Preview: Practical Application Five
	Streamlining and Breathing	121	Preview: Training Dive Seven
98	Clean and Streamlined	122	Preview: Training Dive Eight
99	Controlled Breathing	123	Knowledge Review - Chapter Four
100	Thinking Like a Trimix Diver III –	143	Allowedge herica chapter 17-
	Mission Planning for Trimix Dives	125	Appendix
101	Primory Mission		

Preview: Practical Application Three

Knowledge Review - Chapter Three

Preview: Training Dive Three

Preview: Training Dive Four

155 Index

102

103

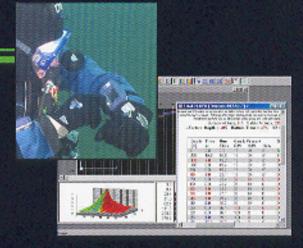
103

105

Tec Trimix Diver



For the extreme diver ready to explore the outer edges of technical deep diving, the gas of choice is trimix - a gas blend consisting of oxygen, helium and nitrogen. The DSAT Tec Trimix Diver course is designed for individuals already certified and experienced in technical deep decompression diving with air and enriched air nitrox. Building upon the acclaimed DSAT Tec Deep Diver course, Tec Trimix Diver takes you below 50 metres/165 feet, opening the door to pristine dive sites few divers - if any - ever see.



With a combination of independent study and training skill sessions, you'll find the Tec Trimix Diver course intense, pushing you to meet the demands of deep trimix diving. It's not for every diver, nor can every diver rise to the challenge. Can you?



