

Expedition Trimix

Course Agenda

Date	Time	Location	Subject	Reading
Saturday	Evening	Classroom	Welcome & Introduction Complete paperwork	
Sunday	Morning	Classroom	Decompression Models, Multi Model Planning and Intuitive Decompression Theory	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 16 - 17, & 27 - 31
	Morning	Classroom	Equipment Handling, including side mounting techniques and alternate ways to handle multiple stage bottles	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 9 - 10
	Afternoon	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Afternoon	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Afternoon	Ocean	Dive 1—200'	
Monday	Morning	Classroom	Safety Protocols for Team Diving, Introductions to team bailout management and Safety protocols in use during the course	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 13
	Morning	Classroom	Dive Planning for Deep Dives greater than 100M	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 22
	Morning	Classroom	Diver Survival—The Mental Side	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 16 - 20
	Afternoon	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Afternoon	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Afternoon	Classroom	Dive 2-330'	
Tuesday	Morning	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Morning	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Morning	Ocean	Dive 3-330'	
	Afternoon	Classroom	Discussions of Diving Emergencies Underwater, responses to emergencies and mitigation ideas	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 16 - 20
	Afternoon	Classroom	Team Diving for Expeditions, practical approaches to deep expedition dives on walls and wrecks	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 23 - 26

Expedition Trimix

Course Agenda

Page 2 of 2

Date	Time	Location	Subject	Reading
Wednesday	Morning	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Morning	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Morning	Ocean	Dive 4—400'	
	Afternoon	Classroom	Physiological Aspects of Deep Diving—Isobaric Counter-Diffusion Issues and HPNS	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 5-8
Thursday	Morning	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Morning	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Morning	Ocean	Dive 5—400'	
	Afternoon	Classroom	Physiological Aspects of Deep Diving - Carbon Dioxide	<i>Exploration & Mixed Gas Encyclopedia</i> Chapters 1-4
Friday	Morning	Dive Staging Area	Pre-Dive Planning, Gas Analysis & Equipment set-up	
	Morning	Dive Staging Area	Pre-Dive Team Briefing, Skill Overview, etc.	
	Morning	Ocean	Dive 6—400'	
	Afternoon	Classroom	Review Session Test	

Dive Number	Maximum Depth	Estimated Run time	Dive Objectives	Skills to be Demonstrated	Instructor's Notes
1	200	120	<ul style="list-style-type: none"> Demonstrate Buoyancy Control Demonstrate Equipment Handling Demonstrate Basic CCR Skills Exhibit Team Work to planning and executing the dive Demonstrate ability to "remain in the dive" despite malfunction scenarios Demonstrate ability to work in teams 	<ul style="list-style-type: none"> Equipment management, 3 bottles Equipment management, running reel High PO2 Drill Low PO2 drill Flooded loop drill Bottle drops and pick-ups with no apparent changes in buoyancy control Bottle exchanges, with no apparent changes in buoyancy control Sharing air (selecting the appropriate gas for the depth) coupled with bottle exchange Team communications 	<ul style="list-style-type: none"> This dive will be used to set the continuous guide line from the dock area to the wall. The deployment should be done with teams of 2 setting the line and trading off during the dive. It should remain in place throughout all of the course dives. All CCR skills should be performed by students dynamically and at this level, all skills should be fluid and well executed. Problems should be repeated until the skills are properly executed Students should demonstrate ability to stay focused on dive objectives and remain in the dive despite having "problems" with their CCR units. By simulating problems but remaining moving and setting line, etc they will help demonstrate their ability to "remain in the dive"
2	330	150	<ul style="list-style-type: none"> Exhibit Team Work and ability for group to function in a team with differing roles Understand the importance of support divers in expedition diving Understand the importance if proper planning especially contingency planning Understand the value of effective team communications 	<ul style="list-style-type: none"> Dive Planning and set-up Determining team size Extend continuous line deeper down wall Bailout onto bottom gas bailout ascend to support diver and exchange bottles to next mix 	<ul style="list-style-type: none"> These dives are within the students current training level. The concept of support diving is being added so they can gain some experience prior to the lectures on setting up an expedition dive. This will give them some practical experience to draw upon to add to the discussions later. Bailout Drill: Diver A, at 200' and proceeds to support divers for assistance <p>Support Divers Team 1 (DEF) 200', Instructor 1 Bottom Divers Team 2 (ABC) 330', Instructor 2</p>
3	330	150	<ul style="list-style-type: none"> Exhibit Team Work and ability for group to function in a team with differing roles Understand the importance of support divers in expedition diving Understand the importance if proper planning especially contingency planning Understand the value of effective team communications 	<ul style="list-style-type: none"> Dive Planning and set-up Determining team size Bailout onto bottom gas bailout ascend to support diver and exchange bottles to next mix 	<ul style="list-style-type: none"> With the prior days experiences, this gives them the ability to improve their skills prior to the 400 foot dives. Bailout Drill: Diver D. at 330' and Diver E at 300', both proceed to shallow support team for assistance <p>Support Divers Team 2 (ABC) 200', Instructor 2 Bottom Divers Team 1 (DEF) 330', Instructor 1</p>

Dive Number	Maximum Depth	Estimated Run time	Dive Objectives	Skills to be Demonstrated	Instructor's Notes
4	400	180	<ul style="list-style-type: none"> Understand the importance of team diving and of support divers at various levels Understand decompression issues and using intuitive decompression Understand the importance if preparation Understand the importance of proper communications 	<ul style="list-style-type: none"> Dive Planning and set-up Team Communications Dive Execution Bailout/Emergency Drills 	<ul style="list-style-type: none"> Bailout Drill: Diver C at 300', Proceeds to support divers for assistance. NOTE: This can only be done after the bottom team divers have returned to 300' without issue. Support role done without issue so personal drill can be performed. <p>Support Divers Team 1 (EF) 200' Support Divers Team 2 (CD) 300', Instructor 1 Bottom Divers Team 3 (AB) 400', Instructor 2</p>
5	400	180	<ul style="list-style-type: none"> Understand the importance of team diving and of support divers at various levels Understand decompression issues and using intuitive decompression Understand the importance if preparation Understand the importance of proper communications 	<ul style="list-style-type: none"> Dive Planning and set-up Team Communications Dive Execution Bailout/Emergency Drills 	<ul style="list-style-type: none"> Bailout Drill: Diver F at 300', Proceeds to support divers for assistance. NOTE: This can only be done after the bottom team divers have returned to 300' without issue. Support role done without issue so personal drill can be performed. <p>Support Divers Team 3 (AB) 200' Support Divers Team 2 (EF) 300', Instructor 2 Bottom Divers Team 1 (CD) 400', Instructor 1</p>
6	400	180	<ul style="list-style-type: none"> Understand the importance of team diving and of support divers at various levels Understand decompression issues and using intuitive decompression Understand the importance if preparation Understand the importance of proper communications 	<ul style="list-style-type: none"> Dive Planning and set-up Team Communications Dive Execution Bailout/Emergency Drills 	<ul style="list-style-type: none"> Bailout Drill: Diver B at 300', Proceeds to support divers for assistance. NOTE: This can only be done after the bottom team divers have returned to 300' without issue. Support role done without issue so personal drill can be performed. <p>Support Divers Team 1 (CD) 200' Support Divers Team 3 (AB) 300', Instructor 1 Bottom Divers Team 2 (EF) 400', Instructor 2</p>