



Med Dive Course Objectives

Med Dive is Dive Rescue International's renowned 16-hour training program for certified divers, surface support personnel, EMS professionals, and other medical professionals involved with dive teams.

Students learn how to recognize and treat hyperbaric injuries. More importantly, graduates of this program will learn how to prevent injuries and safeguard their teammates. This program includes numerous hands-on practical sessions. Successful completion of this program is measured in class participation and an end of program comprehensive test. Med Dive is a prerequisite for all dive trainer programs.

Key training topics and associated objectives include:

HUMAN FACTORS IN DIVE RELATED ACCIDENTS AND ILLNESSES

- Review and discuss human factors such as individual (and team) reliance, perception, comprehension, and projection, and consequent impacts to public safety diving accidents and illnesses

GAS LAWS AND THEIR EFFECT ON DIVERS

- Review of gas laws notably Boyle's and Charles'/Gay-Lussac's and their implications on divers

DIVE RELATED ANATOMY PHYSIOLOGY

- Review of human body anatomy specific to dive related injuries and illnesses

FITNESS TO DIVE

- Public safety diving is often conducted under intense conditions. Divers must be physically prepared to prevent a tragic outcome. What constitutes fitness to dive is scrutinized.

NONPULMONARY BAROTRAUMA

- Eye, ear, tooth, sinus squeeze and reverse squeeze

NEUROLOGICAL INJURIES

- Common warning signs, testing / assessment, and LOC

PULMONARY OVERINFLATION SYNDROME AND ARTERIAL GAS EMBOLI

- Students will gain an understanding of and treatment for pulmonary overinflation injuries and arterial gas emboli including pneumothorax, hemoptysis, and pneumomediastinum

DECOMPRESSION ILLNESS

- Students will learn to recognize and treat decompression illness in divers including associated illnesses concerning VGEs, DCI, and DCS. Recompression including USN Treatment Table 6 and expected results are discussed



SPECIAL PROBLEMS

- Students will discuss shallow water blackout, immersion pulmonary edema, patent foramen ovale, and intrapulmonary arteriovenous anastomosis and their potential dangers to divers

INERT GAS DISORDERS AND UNIQUE GAS PROBLEMS

- Students will review how oxygen, nitrogen, carbon dioxide, and carbon monoxide effect divers

RESCUE AND RESUSCITATION OF THE DIVER

- A review of best practices in the rescue and resuscitation of divers

OXYGEN THERAPY

- Review administration of first aid oxygen

PREREQUISITES

All students must be a member of a public safety agency, at least 18 years of age, and have current First Aid and CPR training.





Med Dive Schedule

DAY 1

8:00-8:30	Registration, Introductions, and Course Overview
8:30-9:30	Human Factors
9:30-10:30	Gas Laws
10:30-11:00	Dive Related Anatomy and Physiology
11:00-12:00	Fitness to Dive
12:00-12:30	Nonpulmonary Barotrauma
12:30-1:30	Lunch
1:30-3:00	Neurological Examinations
3:00-5:00	Pulmonary Overinflation Syndrome

DAY 2

8:00-9:00	Decompression Illness
9:00-10:00	Special Problems
10:00-12:00	Rapid Field Neurological Examination
12:00-1:00	Lunch
1:00-4:00	Rescue, Resuscitation, and Oxygen Therapy
4:00-5:00	Final Exam and Closing