

COURSE WRITEUP

Unified DMT/CHT Certification Course

Dive Medical Technician · Clinical Hyperbaric Technician

Course at a Glance

Course Title	Unified DMT/CHT Certification Course
Credentials	Dive Medical Technician (DMT) Clinical Hyperbaric Technician (CHT)
Provider	Trilogy Emergency Medical Solutions
Florida EMS Provider	#50-29993
Format	100% online, self-paced
Languages	English
Platform	lms.trilogyems.com
Modules	11 modules — each with a textbook chapter and chapter workbook
Duration	40 contact hours
Tuition	\$995 per student
Prerequisite	Active NREMT/state EMT certification or NREMT-P/state Paramedic licensure
CEU Approval	40 hours, Florida Bureau of EMS (NCCP-aligned)
Certifying Body	International Board of Hyperbaric Oxygen Therapy (IBHBOT) — ibhbot.org
Certification Validity	36 months from issuance
Renewal Pathway	IBHBOT-approved recertification course OR 48 hours of CE

Course Description

The Unified DMT/CHT Certification Course is a single, comprehensive online program that delivers the full scientific and clinical foundation required for both the Dive Medical Technician (DMT) and Clinical Hyperbaric Technician (CHT) credentials issued by the International Board of Hyperbaric Oxygen Therapy (IBHBOT). The course is offered exclusively to currently licensed EMTs and Paramedics, and is structured around a unified curriculum — every student studies the same eleven modules from beginning to end, regardless of which credential they intend to pursue.

The unified design is intentional. The foundational science of hyperbaric and diving medicine — gas physics, pressure physiology, decompression theory, oxygen toxicity, and chamber operations — is identical regardless of where it is applied. A Paramedic working offshore who emerges with a thorough understanding of clinical HBOT becomes a more capable consultant when their dive-injury patient arrives at a hyperbaric facility. A Paramedic working in a hospital chamber who emerges with a thorough understanding of operational dive medicine becomes a more capable clinician when a dive casualty arrives at their door. Credential designation — DMT-A, DMT-B, CHT, or both — is determined at the IBHBOT application stage based on the student's professional licensure and practice environment, not at course enrollment.

Each of the eleven modules pairs a textbook chapter with a chapter workbook. The textbook delivers the foundational science, clinical content, and operational standards. The workbook converts that content into structured practice — case scenarios, calculation sets, knowledge checks, and clinical decision exercises. The course is approved for 40 hours of continuing education by the Florida Bureau of Emergency Medical Services.

Who This Course Is For

Enrollment is restricted to currently licensed EMS personnel. Other allied health professionals, including registered nurses (RNs), may be considered on a case-by-case basis.

- **Currently licensed EMTs or Paramedics** — an active EMT or Paramedic license is required for enrollment.
- **Other allied health professionals (case-by-case)** — including registered nurses, reviewed individually based on clinical background and intended practice setting.

Scope of Practice & Course Philosophy

This course does not expand the student's scope of practice. It is designed for clinicians who already hold an active license and the corresponding fundamental skill set. For that reason, the course does not re-teach the fundamental skills and practices that licensed EMS personnel are expected to have already mastered.

Instead, course time is dedicated to the academics, treatment algorithms, and differential diagnosis that prepare the licensed provider to be a valuable medical resource in the field supporting diving operations and in the clinical hyperbaric environment.

IBHBOT Credentials Available

Course completion makes the student eligible to sit for the IBHBOT certification examination. The credential issued is determined by the student's underlying EMS licensure at the time of IBHBOT application:

- **DMT-A (Advanced Dive Medical Technician)** — for Paramedics, Physician Assistants, and Nurse Practitioners.
- **DMT-B (Basic Dive Medical Technician)** — for Emergency Medical Technicians (the primary EMT pathway).
- **CHT (Clinical Hyperbaric Technician)** — for EMTs and Paramedics entering clinical hyperbaric practice.

Lead Instructor

Mike Massaro, MS

Founder & Lead Instructor, Trilogy Emergency Medical Solutions

The Unified DMT/CHT Course is developed and delivered by Mike Massaro, whose career uniquely spans the operational, clinical, and academic dimensions of dive and hyperbaric medicine. The course reflects more than three decades of field experience and a teaching career rooted in the same operational environments students are being prepared to support.

- **Master's Degree in Hyperbaric Medicine** — advanced graduate-level training in the science and clinical practice of hyperbaric medicine.
- **Florida-Licensed Paramedic** — with over 30 years of practice in emergency medicine.
- **NBDHMT Instructor — 10 Years** — certified instructor under the National Board of Diving and Hyperbaric Medical Technology for a decade.
- **Active Dive Medical Technician (DMT)** — currently providing offshore commercial diving medical support.
- **Scuba Instructor** — certified through five internationally recognized scuba training agencies.
- **Divers Alert Network (DAN) Examiner** — authorized examiner for DAN-credentialed programs.

This combination — graduate academic training, current Paramedic licensure, a decade of NBDHMT instructor experience, active commercial DMT practice, multi-agency scuba instructor credentials, and DAN examiner authority — gives the course a foundation in both the science and the operational reality of dive and hyperbaric medicine.

Curriculum — 11 Modules

The Unified DMT/CHT Course is delivered as eleven sequential modules totaling 40 contact hours. Each module includes a textbook chapter and workbook.

#	Module Title	Focus
1	Introduction to Dive & Hyperbaric Medicine	Role foundations, scope of practice, governance, and standards.
2	Physics, Pressure, and Gas Behavior	Boyle's, Dalton's, Henry's, and Charles' Laws applied to diving and hyperbaric clinical practice.
3	Physiology Under Pressure	Cardiovascular, respiratory, neurological, and thermal responses to pressure exposure.
4	Decompression Profiling and NOAA Tables	Dive profile interpretation, NOAA dive tables, residual nitrogen, and surface interval logic.
5	Decompression Illness (DCS)	Type I and Type II DCS, arterial gas embolism (AGE), pathophysiology, presentation, and field management.
6	Patient Assessment Protocols	Dive-specific history, neurological exam, ENT exam, and structured documentation of findings.
7	Oxygen Toxicity and CNS Considerations	CNS (Paul Bert) and pulmonary (Lorrain Smith) toxicity recognition, prevention, and response.
8	Barotrauma and Pressure-Related Injuries	Middle ear, sinus, pulmonary, GI, and dental barotrauma; pulmonary overpressure syndrome.
9	HBOT Principles and Indications	Mechanisms of HBOT, UHMS-approved indications, contraindications, and treatment planning.
10	Hyperbaric Chamber Systems and Safety	Monoplace and multiplace operation, NFPA 99 Chapter 14, fire safety, and emergency procedures.
11	Recompression Treatment and US Navy Tables	US Navy Treatment Tables 5, 6, and 6A; in-treatment patient management; physician-directed table modification.

Core Learning Outcomes

Upon successful completion of the course, the student will be able to:

- Apply gas laws to clinical pressure calculations and partial pressure of oxygen (PPO₂) assessment.
- Assess, classify, and manage decompression sickness, arterial gas embolism, and barotrauma in the field.
- Conduct standardized neurological and ENT examinations specific to dive injury and chamber eligibility.
- Support hyperbaric oxygen therapy delivery with continuous patient monitoring and complication recognition.
- Operate within a defined scope of practice under physician medical direction.
- Apply documentation standards to all patient contacts as required for clinical, legal, and quality purposes.
- Sit for, and pass, the IBHBOT DMT or CHT certification examination.

Aligned Standards

The curriculum is aligned with the standards and guidance of the major organizations that govern hyperbaric and diving medicine practice:

- **IBHBOT** — certifying authority for DMT and CHT credentials.
- **UHMS** — approved HBOT indications and clinical practice guidelines.
- **IMCA** — offshore commercial diving medical standards.
- **DMAC** — international advisory guidance for professional diving medicine.
- **DAN** — emergency consultation, diver safety research, and education.

Assessment & Certification

Each module concludes with a chapter knowledge check. The course culminates in a comprehensive final assessment that mirrors the structure and difficulty of the IBHBOT examinations. Students who complete all eleven modules and pass the comprehensive final receive a Trilogy Emergency Medical Solutions Course Completion Certificate documenting the 40 contact hours.

Course completion qualifies the graduate to sit for the IBHBOT Dive Medical Technician examination, the IBHBOT Clinical Hyperbaric Technician examination, or both. IBHBOT certifications are valid for 36 months from the date of issuance and may be renewed through an IBHBOT-approved recertification course or by accumulating 48 hours of qualifying continuing education.

Continuing Education Credit

The Unified DMT/CHT Course is approved by the Florida Bureau of Emergency Medical Services for 40 hours of continuing education credit aligned with the National Continued Competency Program (NCCP) framework. CEU certificates are issued upon successful course completion and include the Florida EMS Provider number, course identifier, contact hours, and date of completion as required for state EMS recertification documentation.

Trilogy Emergency Medical Solutions

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