

## NAVY HOSPITAL HYPERBARIC ATTENDANTS COURSE

- **Physics of Diving:** Boyles Law, Daltons Law, Henrys Law, Charles Law
- **Barotrauma (Aural, Sinus, Pulmonary, Dental, GI):** Definition, Description, Aetiology, Manifestation, Prevention, Diagnosis and Management
- **Airway Management and Oxygen Administration:** Methods of administration of treatment gases, ET tubes, Tracheal tubes, Ventilators
- **Mechanisms of HBO and Indications for use:** Physiology, Indications, Contraindications for treatment, Treatment tables
- **Decompression Illness:** Definition/Description of Disease, Aetiology, Potential Risk Factors, Preventative Measures, Presentation, Diagnosis and Treatment (including First Aid)
- **Chamber Safety and Emergency Procedures:** Safety procedures, Fitness to dive, Understanding dive tables, Understanding Unit Policies, Chamber Tour, Procedures practical and Systems
- **Managing Medical Emergencies:** Maintaining patient safety, Cardiac arrest, Pneumothorax, Oxygen seizure, Acute anxiety reaction, Squeeze, Aggressive patient
- **Pharmacology in Hyperbaric Medicine:** Drug Therapy in the Hyperbaric Environment –Use of Lignocaine
- **Wound Care:** Normal wound healing, Factors effecting wound healing, Pathophysiology of non healing wounds, Investigation of Chronic Wounds, Role of oxygen in non healing wounds, Transcutaneous (T<sub>cp</sub>O<sub>2</sub>) monitoring, Doppler assessment
- **Gas Poisoning and Effects of Gasses in a Hyperbaric Environment:** CO Poisoning, Nitrogen narcosis, Oxygen toxicity, Carbon dioxide, Heliox, Air: Definition/description, Aetiology, Predisposing factors, Manifestations, Prevention, Diagnosis, Management
- **Systems Test and Pot Dip**
- **Biomedical Equipment:** IV's (Infusions, CV Lines, Arterial Lines, IMED pumps), Monitoring (ECG, BP, Blood Sugar), Airways (ET tubes, Tracheotomies, Ventilators, Bag Mask), Management of drainage appliances
- **Documentation:** for Patient Assessment, Patient Education, Patient Monitoring
- **Hyperbaric Attendants Written Exam (2hrs)**
- **All students must complete both the theory and practical components of the course before being eligible to work as a Hyperbaric Attendant**