

# REVISED SYLLABUS

**For**

# **D.E.T.C.T.**

**(Diploma In Emergency and Trauma Care Technology)**



**Lal Bahadur Shastri Paramedical Skill and  
Training Council India**

**लाल बहादुर शास्त्री पराचिकित्सीय कौशल एवं प्रशिक्षण  
परिषद भारत**

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**Exam: March and April**

**(To be implemented from 2024-25 session)**

## Syllabus of Diploma in Emergency and Trauma Care Technology

### **FIRST YEAR (1<sup>st</sup>)**

#### TEACHING AND EXAMINATION SCHEME

S. No.	Subjects	Distribution of Marks			
		TH	PR	Viva-voce	Total
Paper I	Anatomy, Physiology, Pathology & Pharmacology	100	-	-	100
Paper II	Medical Emergencies	100	-	-	100
Paper III	EMS Environment	100	-	-	100
Paper IV	Emergency in body system	-	75	25	100
Paper V	Ambulance Simulator	-	100	-	100
Paper VI	Clinical Rotations (Sessional)	-	<b>50</b>	<b>50</b>	<b>100</b>
	Total				<b>600</b>

## Syllabus of Diploma in Emergency and Trauma Care Technology

### **SECOND YEAR (2<sup>nd</sup>)**

S. No.	Subjects	Distribution of Marks			
		TH	PR	Viva-voce	Total
Paper I	EMS Environment II	100	-	-	100
Paper II	Medical Emergencies	100	-	-	100
Paper III	Management of Medical Emergency	100	-	-	100
Paper IV	Awareness of Medical Emergency	100	-	-	100
Paper	Clinical Rotations II	-	100	-	<b>100</b>
	Total				<b>500</b>

# Syllabus of Diploma in Emergency and Trauma Care Technology

## **First year**

(Cognitive and Psychomotor)

### **Preparatory:**

- EMT Core Training
- EMS Systems, Roles and Responsibilities (EMT and PARAMEDIC)-The Well-Being of the Paramedic
- Illness and Injury Prevention-Medical and Legal Issues
- Ethical Issues
- Pathophysiology-Pharmacology
- Vascular Access and Medication Administration-Human Development

### **Airway:**

- Airway Management and
- Ventilation Patient

### **Assessment:**

- Patient History
- Physical Examination-Patient Assessment
- Critical Thinking and Clinical Decision Making-Communications and Documentation
- Trauma:
  - Trauma Systems and Mechanism of Injury-Bleeding and Shock
  - Burns
  - Head and Face Injuries-Spine Injuries
  - Thoracic Injuries-Abdomen Injuries
  - Musculo skeletal
  - Injuries Medical
  - Respiratory Emergencies
  - Cardiovascular Emergencies-Neurologic Emergencies
  - Endocrine Emergencies
  - Gastrointestinal Emergencies
  - Renal and Urologic Emergencies-Allergic Reactions
  - Toxicology (Substance Abuse and Poisoning)-Hematologic Emergencies
  - Environmental Emergencies
  - Infectious and Communicable Disease-Behavioral Emergencies
  - Gynecologic Emergencies-Obstetrics
- Clinical Rotations 1**
- Ambulance Simulator 1

### **Course Components- Second Year (Cognitive and Psychomotor)**

### **Special Considerations:**

- Neonatology-Pediatrics
- Geriatrics
- Abuse, Neglect and Assault-Patients with Special Needs
- Acute Interventions for the Chronic Care Patients

### **Operations:**

- Ambulance Operations
- Medical Incident Command
- Terrorism and Weapons of Mass Destruction-Rescue Awareness and Operation
- Hazardous Materials Incidents-Crime Scene Awareness

### **Surgical Knots and Suturing Techniques:**

- Basic Sterile Technique
- Two-Handed Square Knot
- Instrument Tie Square Knot-Suture materials
- Surgical Needles
- Suturing Methods-Suture Patterns
- Removing Sutures

### **Sonography (Ultrasound)**

- Basic Operation and
- Interpretation AHA Basic
- Life Support
- AHA Advanced Cardiac Life Support
- AHA Pediatric Advanced Life Support
- Pre-Hospital Trauma Life Support/Combat and Tactical Medicine Concepts
- CEVO-Coaching Emergency Vehicle Operator (Ambulance)
- Hazardous Materials Awareness
- Vehicle Extrication Concepts
- Technical Rescue Awareness

### **Clinical Rotations2**

- Ambulance Ride Along/Internship Part I and Part II
- Ambulance Simulator2
- Skills proficiency assessments:
- EMT/Basic Core Proficiency Skills:
- Baseline Vital Signs with SAMPLE history &
- radio report BVM ventilation-adult, child,
- infant
- Oral suctioning-adult, child, infant
- CPR-one rescuer with at least 90% proficiency in ventilations/compressions  
Oxygen administration-NC, NRB, pulse oximetry (SpO2 monitoring), and  
capnography (etCO2 monist Bleeding/Hemorrhage management (Quik
- Clot and CAT) LSB, KED, Traction Splint

**Patient Assessment:** Medical Assessment Trauma Assessment

### **Airway Management Skills:**

- ETT-adult, pediatric (child

- and infant) King Airway-
- adult
- LMA-adult
- I Gel-adult and pediatric Tracheal suctioning Surgical cricothyrotomy Transport
- ventilator
- Needle chest decompression

#### **IV/Medication Skills:**

- Blood draw with vacutainer device Blood draw with butterfly
- needle Blood draw with syringe/OTN catheter
- IV start-peripheral
- IV medication administration-piggy back in
- fusion IV medication administration-3-
- ways to pack
- Medication administration-subcutaneous, intramuscular, IV bolus, nebulizer

#### **Advanced/Specialized Skills:**

- Sutures Ultrasound
- Accident Vehicle Patient Extrication (AVET/PHTLS)

#### **MANUALS/BOOKS:**

1. "Emergency-Care and Transportation of the Sick and Injured", Tenth Edition, AAOS
2. Emergency Medical Technician-Transition Manual, AAOS
3. Nancy Caroline's Emergency Care in the Streets, AAOS, Sixth Edition Hole's Human Anatomy & Physiology, Thirteen Edition
4. AHABLS for the Health care Provider
5. Wilderness and Rescue Medicine, Sixth Edition, Jones & Bartlett Learning "Basic Ultrasound" by Hylton B 'Meire and Pat Farrant  
"Surgical Knots and Suturing Techniques", F.D. Giddings, Second Edition