

ECMO & Critical Care Nursing Certificate Course

(6-Month Course)

ECMO & Critical Care Department of K K Patel Super Speciality Hospital, Bhuj, Gujarat
(An Extracorporeal Life Support Organization (ELSO) & ECMO SOCIETY OF INDIA
(ESOI) REGISTERED CENTRE)

ELSO SILVER LEVEL ECMO CENTER

Course Affiliated with Critical Care Nursing Society

Registration No 2968

(Associate Member of World Federation Care Nurse

Member Regional Federation Of CRITICAL Care Nurse, SAARC Countries)

Certificate Course Program Director:

Dr. Aravind Chandrasekaran,

MD Anaes (JIPMER), DrNB (Critical Care Medicine), EDIC (European Diploma in Intensive
Care Medicine-ESICM) E-AEC (ELSO - Adult ECMO Certification)

ECMO Program Director & Consultant Critical Care Specialist (Superspecialty)

Certificate Course Program Co-ordinator:

Mr. Poona Ram,

ICU Nursing Incharge & ECMO Program Co-ordinator

(GNM, PBBSc Nursing, Comprehensive Simulation – Based Adult ECMO Course ELSO

Endorsed, ACLS, RSCIT)

Course Duration:

6 Months

Start Date: 01 May 2026

End Date: 31 Oct 2026

Objective:

The 6-Month ECMO & Critical Care Nursing Certificate Course is designed to provide registered nurses with specialized knowledge and advanced skills required to manage critically ill patients in high-acuity clinical environments. This program ensures that participants are fully equipped to provide critical care in intensive care units (ICUs), emergency departments, and other specialized care settings, improving patient outcomes and contributing to life-saving practices.

Course Highlights:

Eligibility:

- Registered Nurses with [GNM Nursing / B.Sc. Nursing]
- Minimum 06 Months of experience required

Duration:

- 6 Months of intensive theoretical, practical, and clinical training

Mode of Instruction:

- Combination of classroom lectures, hands-on practical sessions, and clinical rotations in various critical care settings.

Admission Process:

- **Screening:** Multiple-choice question exam
- **Interview:** Personal or video conference interview to assess the candidate's passion and experience in critical care nursing.

Course Content:

1. Foundational Training:

- Introduction to Critical Care Nursing
- Advanced Airway Management and Cardiovascular Support
- Pharmacology in Critical Care Settings
- Infection Control and Ethical Considerations in ICU

2. Specialized Critical Care Knowledge:

- Extracorporeal Membrane Oxygenation (ECMO) and CRRT
- Advanced Hemodynamic Monitoring (PiCCO)
- Trauma & Emergency Care in Critical Settings
- Invasive Line Management and Post-Operative Care

3. Life-Support and Therapies:

- Ventilation modes and Mechanical Ventilation management
 - Renal Replacement Therapy and ECMO protocols
 - Advanced Cardiac Support (IABP)
 - 4. **Patient Management in Specialized Units:**
 - Post-cardiac surgery care
 - Bone Marrow Transplant care protocols
 - Isolation care for immunocompromised patients
 - Pediatric and Geriatric Critical Care
 - 5. **Ethics & Communication:**
 - Professional communication in critical care settings
 - Decision-making and team-based care in multidisciplinary ICU environments
 - Self-care strategies and burnout prevention for nurses
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Training Topics:

- **Invasive Line Management:**
 - Central Venous Catheter (CVC), Arterial Lines, Pulmonary Artery Catheter (PAC), and Dialysis Catheters
 - PiCCO line management and complications
 - **Critical Care Concepts:**
 - Sepsis and MODS management
 - Acid-Base Imbalances
 - Post-ECMO, post-IABP, and Bone Marrow Transplant Care
 - **Ventilation & Life-Support Systems:**
 - Advanced Ventilation Modes: PSV, APRV, HFOV
 - Non-invasive and invasive mechanical ventilation techniques
 - Prone positioning for ARDS management
 - **Specialized Critical Care Skills:**
 - Trauma & Burn Management
 - Invasive procedures: Intubation, Thoracostomy, and Tracheostomy care
 - Post-cardiac arrest care protocols
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Clinical Rotations:

Participants will undertake rotations in high-stakes settings like:

- Intensive Care Units (ICUs)
- Emergency Departments (ED)
- Specialized Units (Cardiac ICU, Bone Marrow Transplant)
- Dialysis and Trauma Units
- Post-operative Care Units

Certification:

Upon successful completion of the course, participants will be awarded the **ECMO & Critical Care Nursing Certificate** by K K Patel Super Speciality Hospital (Course Affiliated with Critical Care Nursing Society) in collaboration with Dr. Aravind Chandrasekaran and Mr. Poona Ram.

Course Fee:

The fee for the full 6-Month program is **₹15000/-** which includes all course materials, clinical exposure, and certification. **Stipend will be paid according to experience**

How to Apply:-

To apply, please visit our official website at <https://www.kkphospital.org/> or (used this link https://docs.google.com/forms/d/e/1FAIpQLSctercwQj-0NHRFOrrUVMTYCPEZrELt0_8MMf33qFxPk7ZMog/viewform?usp=publish-editor) or scan this QR code. Ensure you meet the eligibility requirements before applying.



Contact Information:

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Deadline for Application:

25 April 2026 (for the first batch)