



**Gujarat Council of Vocational Training
Gandhinagar**



103

1. Name of Course:

ICU/CRITICAL CARE TECHNICIAN

N.C.O. No. for Skills Covered:
(Please refer National Classification of
Occupations -2004 available
on www.dget.nic.in)

DIVISION - 3 SUB DIVISION - 32 GROUP 321

2. Engineering OR Non-engineering: **NON ENGINEERING**

3. No. of students per batch: **10**

4. Duration in Hours. : **624 Hours**

5. Duration in Month: **6 @ 24 hours/Week.**

Duration in Month: **12 @ 12 hours/Week.**

5. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Excluding Sessional)	Minimum Marks required for Passing (Excluding Sessional).	Sessional Marks if any.
Subject-1	Theory	156	100	40	-
Subject-2	Practical	468	300	180	-

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	SSC Pass, 18years or above
Desirable:	HSC Pass , 18years or above

3. Minimum qualification for Trainer:

Minimum qualification (Essential):	Graduate, certified Critical Care Technician, 3-5 years of experience
Desirable:	Graduate certified Critical Care Technician with 5-10 years of clinical experience in ICU department of tertiary care hospital and 2-3 years as Trainer





Gujarat Council of Vocational Training
Gandhinagar



104

9. Syllabus Committee Member:

Sr. No.	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1.	Dr. Sajan Nair	NHPL	Facility Director	MBBS, MD, Msc, Mphil	20	
2.	Mr. Jignesh Parmar	NHPL	GM- HR	MHRD, MLW	17	
3.	Dr. Prashant Deshmukh	NHPL	MS	MBBS, PGDBM	05	
4.	Mr. A.R.Panchal	ITI, Kubernagar	Principan / Ex Officio	D.M.E	20	

10. Terminal Skills of trainee: (Should be well defined and having reference to NCO):

The trainee, after successful completion of training, will have following skills...

Will be able to deliver as mentioned in Division-3 – Sub Division – 32, Group 321 of NCO

Details as :

- setting up equipment, connecting patients and monitoring the machinery as it is being used
- carrying out regular maintenance checks of intensive care equipment and bedside technical support
- working with other healthcare professionals during life threatening events
- advising and training medical staff on the use of equipment

11. Approximate cost of Tools / Equipments / Machinery for Starting one batch of the course:

Rupees	Reference Year
1.5 cr.	2012

12. Area required for practical / Workshop for one batch.

1200 Sq. Sq. Feet

13. Minimum Power connection required

30 K.W.

14.1 No of items in Standard list of Machinery:

6

14.1.1. Page NO from ___ to ___.

14.2 No of items in Standard list of Shop outfit:

NA





**Gujarat Council of Vocational Training
Gandhinagar**



105

14.2.1. Page NO from ___ to ___.

14.3 No of items in Standard list of Trainee Toll-Kit:

6

14.1.1. Page NO from ___ to ___.

**Theory Classes – 18*15 sq feet, Practical Sessions in Critical Care Department of NH
Multispeciality Hospitals, required machinery/equipments/materials available in the
department)**

***** FOR OFFICIAL USE *****

Approved by GCVT in ~~Governing Body meeting~~ on

20/2/2019

Syllabus implemented w.e.f. admission session

Immediate

Revision History :

1. Revision No..... Revision Date.
2. Revision No..... Revision Date.
3. Revision No..... Revision Date.





Gujarat Council of Vocational Training
Gandhinagar



106

Standard List of Machinery - Equipment / Shop-outfit / or Trainee Toolkit
For Trade of ICU/CRITICAL CARE TECHNICIANS

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1	blood analysers	1	1	0	1
2	dialysis systems	2	2	0	2
3	ventilators	17	10	0	10
4	haemofiltration and other life support machinery	2	2	0	2
5	defibrillators and monitors	8	4	0	4
5	infusion pumps and syringe drivers	8 & 100	4 & 10	4 & 10	4 & 10





**Gujarat Council of Vocational Training
Gandhinagar**



107

**GUJARAT COUNCIL OF VOCATIONAL TRAINING
GANDHINAGAR**

Name of Syllabus: **ICU/CRITICAL CARE TECHNICIANS**

Sector: **HealthCare/Hospitals**

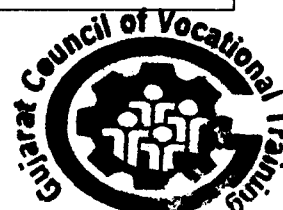
Terminal Competency:

setting up equipment, connecting patients and monitoring the machinery as it is being used
carrying out regular maintenance checks of intensive care equipment and bedside technical support

working with other healthcare professionals during life threatening events

advising and training medical staff on the use of equipment

Theory	Practical
<p>1. Applied Anatomy related to critical care</p> <p>I RESPIRATORY SYSTEM</p> <p>II CARDIOVASCULAR SYSTEM</p> <p>III CENTRAL NERVOUS SYSTEM</p> <p>2. Applied physiology related to critical care</p> <p>3. Clinical Pharmacology:</p> <p>4. Clinical Microbiology And Infection Control</p> <p>SPECIFIC INFECTIONS</p> <p>Nosocomial Infections: Types - Prevention</p> <p>HIV-AIDS .</p> <p>Hepatitis A, B, C</p> <p>Tropical Infections -Tetanus, Malaria, Leptospirosis, Dengue, Rickettsial, Amoebiasis Sepsis</p> <p>5. Airway Care</p> <p>6. Oxygen Therapy</p> <p>7. MECHANICAL VENTILATION - NON INVASIVE AND INVASIVE</p>	<p>Applied Anatomy, Physiology</p> <p>Applied Microbiology & Infection Control Including CSSD</p> <p>Critical care technology (Airway, O2 therapy, care of patient on ventilator,</p> <p>EQUIPMENT MAINTENANCE & BASIC TROUBLESHOOTING:</p> <p>Ventilators, CPAP, BiPAP machines</p> <p>Pumps - Infusion, Syringe</p> <p>Monitors - Stand alone & multiparameter</p> <p>ECG Machine</p> <p>ABG Machine</p> <p>Defibrillator</p>





**Gujarat Council of Vocational Training
Gandhinagar**



108

8. CARE OF PATIENTS ON

VENTILATOR

9. CARDIOVASCULAR SUPPORT:

10. CSSD PROCEDURES

12. EQUIPMENT MAINTENANCE &
BASIC TROUBLESHOOTING:

Ventilators, CPAP, BiPAP machines

Pumps - Infusion, Syringe

Monitors - Stand alone &
multiparameter

ECG Machine

ABG Machine

Defibrillator

Signature:

