
Netcare Education - Faculty of Nursing and Ancillary Health Care

Gauteng South West Campus (S1407), Gauteng North East Campus (S1588), Kwa Zulu Natal Campus (S177), Western Cape Campus (S172), Eastern Cape Campus (S1587).

Name of programme	Duration of programme	NQF Level	Credits	Course Outline per programme and/or per module
In-service programme in Aneasthetics and Recovery Room Skills for ENA's	6 months			See Attached sheets
In-service programme in Aneasthetics and Recovery Room Skills for EN's	6 months			See Attached sheets
In-service programme in Aneasthetics and Recovery Room Skills for RN's	6 months			See Attached sheets
In-service programme in Elementary Accident and Emergency nursing for EN's	6 months			See Attached sheets
In-service programme in Elementary Accident and Emergency	6 months			See Attached sheets

nursing for RN's				
In-service programme in Elementary Critical Care Nursing Science for EN's	6 months			See Attached sheets
In-service programme in Elementary Critical Care Nursing Science for RN's	6 months			See Attached sheets
In-service programme in Accident + Emergency Nursing Science for EN's	6 months			See Attached sheets
In-service programme in Accident + Emergency Nursing Science for RN's	6 months			See Attached sheets
In-service programme in Infection Control Nursing for RN's	6 months			See Attached sheets
In-service programme in Operating Room Skills for EN's	6 months			See Attached sheets
In-service programme in Operating Room Skills for RN's	6 months			See Attached sheets
In-service programme in Orthopaedic Nursing Science for EN's	6 months			See Attached sheets
In-service programme in Orthopaedic Nursing Science for RN's	6 months			See Attached sheets
Enrolled Nursing Assistant Upgrade	3 months			See Attached sheets
Infection Control Principles for RN's	3 - 5 days			See Attached sheets
Infection Control Principles for EN's + ENA's	2 days			See Attached sheets
Infection Control Principles for Health Care Workers + Porters	1 day			See Attached sheets

CERTIFICATE COURSE IN ANAESTHETIC AND RECOVERY ROOM SKILLS FOR ENROLLED NURSING AUXILIARIES

Qualifications matrix for the course

Content.	Notional hours: theory.	Notional hours: practica.	Credits.	Duration.
Introduction to anaesthetic techniques.	100		10	The course will run over a period of six months.
Legal Liability, Accountability and Ethical Issues.	40		4	
Peri-operative management of the patient who is undergoing anaesthesia.	380	400	38 theory. 20 prac.	
TOTAL:	520	400	72	

COURSE OUTLINE:

1. Outline of course content:

Module 1: The Anaesthetized Patient:

- ⊙ Pre-operative patient.
- ⊙ Induction, maintenance and reversal of anaesthesia.
- ⊙ Post-operative phase.
- ⊙ Reasons for the administration of pre-medication.
- ⊙ Commonly used pre-medication agents.
- ⊙ General anaesthesia.

- ⊙ Stages of anaesthesia and associated nursing actions.
- ⊙ Key aspects with respect to the induction of anaesthesia.
- ⊙ The “difficult” intubation and the management thereof.
- ⊙ Methods and nursing implications related to anaesthesia in patients with special needs.
- ⊙ Psychological needs of the patient during the pre-, intra- and post-operative phases.
- ⊙ Physiological needs during the pre-, intra-, and post-operative phases.
- ⊙ The preparation of Theatre for patients with special needs.
- ⊙ Management of emergencies during anaesthesia.

Module 2: Recovery room Nursing:

- ⊙ The twenty “Golden Rules” of the Recovery Room.
- ⊙ Design of the Recovery Room.
- ⊙ Preparation of the Recovery Room.
- ⊙ Patient transport and the dangers thereof.
- ⊙ Operating Room recovery.
- ⊙ Recovery Room to the ward.
- ⊙ Patient assessment on admission to the Recovery Room.
- ⊙ Routine Recovery Room procedures.
- ⊙ Facilitation of a safe environment in the immediate post-operative phase.
- ⊙ Specific nursing management:
 - Spinal anaesthesia.
 - Epidural anaesthesia.
- ⊙ Discharge of the patient from Recovery Room.

Module 3: Risk Management:

- ⊙ Informed consent (adult and paediatric).
- ⊙ Identification of the patient.
- ⊙ Incorrect surgical intervention carried out on a patient.
- ⊙ Electro-surgical burns.
- ⊙ Explosions and/or fire in the Operating Room.

- ⊙ Maintenance, record-keeping, testing of equipment and the dangers of defective equipment.
- ⊙ Injuries to patient and to personnel.
- ⊙ Responsibilities of the nurse regarding death on the Theatre table.
- ⊙ Medico-legal hazards:
 - Pre-operative.
 - Intra-operative.
 - Post-operative.
 - Environmental.
- ⊙ Handling of a difficult anaesthetist.
- ⊙ Principles of asepsis.

- ⊙ Correct handling of scheduled drugs.

Module 4: Anaesthetic Emergencies:

- ⊙ Intra-operative cardiac arrest.
- ⊙ Malignant hyperthermia.
- ⊙ Hypoxia.
- ⊙ Latex allergy.
- ⊙ Hypothermia.

2. Integrated assessment:

2.1. Formative:

Theory.	A minimum of 2 class tests.
Practica.	Completion of practica register.

Minimum of 2
clinical
evaluations.

2.2. Summative.

Theory.

Written
examination.

Practica.

Final clinical
practical
evaluation.

CERTIFICATE COURSE IN ANAESTHETIC AND RECOVERY ROOM SKILLS FOR ENROLLED NURSES

Qualifications matrix for the course

Content.	Notional hours: theory.	Notional hours: practica.	Credits.	Duration.
Introduction to anaesthesia and anaesthetic techniques, including applied pharmacology.	100		10	The course will run over a period of six months.
Legal Liability, Accountability and Ethical Issues.	40		4	
Peri-operative management of the patient who is undergoing	380	400	Theory 38	

anaesthesia.			Prac 20	
TOTAL:	520	400	72	

COURSE OUTLINE:

1. Outline of course content:

Module 1: The Anaesthetized Patient:

- ⊙ Pre-operative patient.
- ⊙ Induction, maintenance and reversal of anaesthesia.
- ⊙ Post-operative phase.
- ⊙ Reasons for the administration of pre-medication.
- ⊙ Commonly used pre-medication agents.
- ⊙ Local anaesthesia.
- ⊙ Regional anaesthesia.
- ⊙ Topical anaesthesia.
- ⊙ Spinal & epidural anaesthesia.
- ⊙ General anaesthesia.
- ⊙ Stages and signs of anaesthesia and associated nursing actions.
- ⊙ Key aspects with respect to the induction of anaesthesia.
- ⊙ Indications, advantages and complications of:
 - Endotracheal intubation.
 - Laryngeal mask.
 - ⊙ The “difficult” intubation and the management thereof.
 - ⊙ Cricoid pressure and its importance:
 - Pregnancy.
 - Trauma.
 - Emergencies.
 - ⊙ Methods and nursing implications related to anaesthesia in patients with special needs:
 - Paediatrics.
 - Pregnancy and Obstetrics.

- o Poly-trauma.
- o Geriatrics.
- ⊙ Psychological needs of the patient during the pre-, intra- and post-operative phases.
- ⊙ Physiological needs during the pre-, intra-, and post-operative phases.
- o Fluid balance.
- o Ventilation.
- o Temperature control.
- o Physical comfort.
- o Safety.
- ⊙ The preparation of Theatre for patients with special needs:
- o Paediatrics.
- o Pregnancy and Obstetrics.
- o Geriatrics.
- ⊙ Management of the following during anaesthesia:
- o Hypothermia/hyperthermia.
- o Haemorrhage.
- o Shock.
- o Cardio-respiratory arrest.

Module 2: Recovery room Nursing:

- ⊙ The twenty “Golden Rules” of the Recovery Room.
- ⊙ Design of the Recovery Room.
- ⊙ Preparation of the Recovery Room.
- ⊙ Patient transport and the dangers thereof.
- ⊙ Operating Room recovery.
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- ⊙ Identification of the patient.
- ⊙ Incorrect surgical intervention carried out on a patient.
- ⊙ Electro-surgical burns.
- ⊙ Explosions and/or fire in the Operating Room.
- ⊙ Maintenance, record-keeping, testing of equipment and the dangers of defective equipment.
- ⊙ Injuries to patient and to personnel.
- ⊙ Responsibilities of the nurse regarding death on the Theatre table.
- ⊙ Booking of the operation list and its importance.
- ⊙ Medico-legal hazards:
 - Pre-operative.
 - Intra-operative.
 - Post-operative.
 - Environmental.
- ⊙ Handling of a difficult anaesthetist.
- ⊙ Principles of asepsis.
- ⊙ Correct handling of scheduled drugs.

Module 4: Anaesthetic specialties:

- ⊙ Preparation and management of the theatre for the following types of case:
 - Vascular/cardiac.
 - Respiratory.
 - Neurological.
 - Endocrine/metabolic.
 - Trauma.
 - Transplantation.
 - Paediatrics.
 - Geriatrics.
 - Routine “cold’ cases.

Module 5: Anaesthetic

Emergencies:

- ⊙ Intra-operative cardiac arrest.
- ⊙ Malignant hyperthermia.
- ⊙ Hypoxia.
- ⊙ Latex allergy.
- ⊙ Hypothermia.

2. Integrated assessment:

2.1. Formative:

Theory. A minimum of 2 class tests.

Practica. Completion of
practica register.
Minimum of 2 clinical
evaluations.

2.2. Summative.

Theory. Written
examination.

Practica. Final clinical
practical
evaluation.

Qualifications matrix for the

course:

Content.	Notional hours: theory.	Notional hours: practica.	Credits.	Duration.
Introduction to anaesthesia and anaesthetic techniques, including applied pharmacology.	100		10	The course will run over a period of six months.
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- ⊙ General anaesthesia.
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 - Pregnancy.
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 - Emergencies.
- ⊙ Methods and nursing implications related to anaesthesia in patients with special needs:
 - Paediatrics.
 - Pregnancy and Obstetrics.
 - Poly-trauma.
 - Geriatrics.
- ⊙ Psychological needs of the patient during the pre-, intra- and post-operative phases.
- ⊙ Physiological needs during the pre-, intra-, and post-operative phases.
 - Fluid balance.
 - Ventilation.
 - Temperature control.
 - Physical comfort.
 - Safety.
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 - Geriatrics.
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 - Shock.
 - Cardio-respiratory arrest.

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 - Neurological.
 - Endocrine/metabolic.
 - Trauma.
 - Transplantation.
 - Paediatrics.
 - Geriatrics.
 - Routine “cold’ cases.

Module 5: Anaesthetic Emergencies:

- ⊙ Intra-operative cardiac arrest.
- ⊙ Malignant hyperthermia.
- ⊙ Hypoxia.
- ⊙ Latex allergy.
- ⊙ Hypothermia.

2. Integrated assessment:

2.1. Formative:

Theory.	A minimum of 2 class tests.
Practica.	Completion of practica register. Minimum of 2 clinical evaluations.

2.2. Summative.

Theory. Written examination.

Practica. Final clinical practical evaluation.

CERTIFICATE IN ELEMENTARY CRITICAL CARE NURSING FOR ENROLLED NURSES

Qualifications matrix for the course

Content	Notional hours:	Notional hours: Practica	Credits	Duration
	Theory			
Applied anatomy & physiology.	60		6	The course will be presented over at least 6 months.
Critical Care Nursing	380	400	Theory 38	

			Prac 20
Critical Care Nursing Dynamics	20		2
Applied pharmacology	60		6
TOTAL	520	400	72

COURSE OUTLINE

1. Outline of course content:

1.1. Applied Anatomy and Physiology:

⊙ **Cardiovascular System:**

Layers of the heart; Heart valves.

Flow of blood through the body.

Conducting system of the heart.

Blood vessels; Blood.

Cardiac output.

Stroke volume.

Contractility.

Heart rate.

Clinical picture of a patient with a low cardiac output.

⊙ **Fluid and Electrolyte Balance:**

Total body water; Fluid compartments.

Major electrolytes in the body and their functions.

⊙ **Respiratory System:**

Primary function; Mediastinum.

Conducting airways.

Air conditioning; Alveoli.

Surfactant; Gas exchange.

Pleural membranes.

Muscles of respiration.

Work of breathing.

Regulation of ventilation.

⊙ **Nervous System:**

Intracranial contents.

Reaction to an increase in intracranial content –

Monroe-Kelly hypothesis.

Cerebral blood flow.

Cerebral perfusion and cerebral perfusion pressure.

1.2. Critical Care Nursing:

- ⊙ History-taking in the patient with cardiovascular compromise.
- ⊙ Assessment of the patient with cardiovascular compromise.
- ⊙ Invasive pressure monitoring.
- ⊙ Introductory electrocardiography.
- ⊙ Blood results.
- ⊙ Angina and myocardial infarction.
- ⊙ Acute pulmonary oedema.
- ⊙ Haemodynamic shock.
- ⊙ Massive blood transfusion.
- ⊙ Coronary angiography, Percutaneous Transluminal Coronary Angioplasty (PTCA), coronary stents.
- ⊙ Volume depletion.
- ⊙ Volume overload.
- ⊙ Electrolyte imbalance – hyper- and hypo-kalaemia; other electrolyte imbalances.
- ⊙ Assessment of the patient with respiratory compromise – history-taking and physical assessment.
- ⊙ Blood studies and diagnostics in the patient with respiratory compromise.
- ⊙ Arterial blood gasses.
- ⊙ Acute respiratory failure.
- ⊙ Oxygen therapy.
- ⊙ Artificial airways.
- ⊙ Mechanical ventilation.
- ⊙ Raised intracranial pressure.
- ⊙ Spinal shock.

- ⊙ The patient in pain.
- ⊙ Diabetic coma.
- ⊙ Enteral nutrition in critical care.
- ⊙ Total parenteral nutrition.

1.3. Critical care Dynamics

- ⊙ The critical care health team.
- ⊙ Collaborative care.
- ⊙ Ethical issues in critical care.
- ⊙ Helping communication.
- ⊙ Effects of the critical care environment on patients and families.

1.4. Applied

Pharmacology.

- ⊙ Positive inotropic agents.
- ⊙ Nitrates.
- ⊙ Calcium channel blockers.
- ⊙ Heparin.
- ⊙ Amiodarone (Cordarone).
- ⊙

Aminophylline.

- ⊙ Combivent.
- ⊙ Mannitol.
- ⊙ Midazolam (Dormicum).
- ⊙ Morphine.
- ⊙ Muscle

relaxants.

2. Integrated assessment:

2.1. Formative:

Theory.	Written tests X 2. Projects and assignments as specified by the institution.
Practica.	Clinical evaluations: <ul style="list-style-type: none"> ⊙ Arterial pressure monitoring. ⊙ Recording of a 12-lead ECG. ⊙ Endotracheal suctioning. ⊙ Tracheostomy care. ⊙ Renewal of parenteral nutrition.

2.2. Summative:

Theory.	Written examination.
Practica.	Final clinical examination. This examination consists of a comprehensive practical evaluation, which is carried out at the bedside.

CERTIFICATE IN ELEMENTARY CRITICAL CARE NURSING FOR REGISTERED NURSES

Qualifications matrix for the course

Content	Notional hours:	Notional hours: Practica	Credits	Duration
	Theory			
Applied anatomy & physiology.	60		6	The course will be presented over at least 6 months.
Critical Care Nursing	380	400	Theory 38 Prac: 20	
Critical Care Nursing Dynamics.	20		2	
Applied pharmacology.	60		6	
TOTAL	520	400	72	

COURSE OUTLINE;

1. Outline of course content:

1.1. Applied Anatomy and Physiology:

⊙ **Cardiovascular System:**

Layers of the heart; Heart valves.

Flow of blood through the heart.

Conducting system of the heart.

Blood vessels; Blood.

Cardiac output.

Stroke volume, pre- and afterload.

Total blood volume; Atrial kick.

Compliance; Venous return.

Contractility.

Heart rate.

⊙ **Fluid and Electrolyte Balance:**

Total body water; Fluid compartments.

Exchange of fluid between departments.

Plasma osmolality.

Electrolyte concentrations in major fluid compartments.

Major electrolytes in the body and their functions.

⊙ **Respiratory System:**

Primary function; Mediastinum.

Conducting airways.

Air conditioning; Alveoli.

Surfactant; Gas exchange.

Pleural membranes.

Muscles of respiration.

Work of breathing.

Regulation of ventilation.

Oxygenation: PaO₂ and SaO₂.

⊙ **Acid-base balance:**

Definitions and concepts.

Acids and their formation in the body.

Respiratory regulation; Renal regulation.

Compensatory mechanisms; altitude.

⊙ **Nervous System:**

Intracranial contents.

Reaction to an increase in intracranial content –

Monroe-Kelly hypothesis.

Cerebral blood flow.

Cerebral perfusion and cerebral perfusion pressure.

The autonomic nervous system.

Components.

Neurotransmitters.

Receptors.

⊙ **Endocrine and Metabolic System:**

Normal regulation of blood glucose levels.

1.2. Critical Care Nursing:

⊙ History-taking in the patient with cardiovascular compromise.

⊙ Assessment of the patient with cardiovascular compromise.

⊙ Blood studies and diagnostics in the patient with cardiovascular compromise.

⊙ Invasive haemodynamic monitoring.

⊙ Electrocardiography.

⊙ Angina and myocardial infarction.

⊙ Acute pulmonary oedema.

⊙ Haemodynamic shock.

⊙ Massive blood transfusion.

⊙ Coronary angiography, Percutaneous Transluminal Coronary Angioplasty (PTCA), coronary stents.

⊙ Volume depletion.

⊙ Volume overload.

- ⊙ Electrolyte imbalance – hyper- and hypo-kalaemia; other electrolyte imbalances.
- ⊙ Assessment of the patient with respiratory compromise – history-taking and physical assessment.
- ⊙ Blood studies and diagnostics in the patient with respiratory compromise.
- ⊙ Arterial blood gasses.
- ⊙ Acid-base imbalance.
- ⊙ Acute respiratory failure.
- ⊙ Oxygen therapy.
- ⊙ Artificial airways.
- ⊙ Mechanical ventilation.
- ⊙ Raised intracranial pressure.
- ⊙ Spinal shock.
- ⊙ The patient in pain.
- ⊙ Diabetic keto-acidosis.
- ⊙ Hyperglycaemic hyperosmolar non-ketotic coma (HHNC).
- ⊙ Enteral nutrition in critical care.
- ⊙ Total parenteral nutrition.

1.3. Critical care Dynamics

- ⊙ The critical care health team
- ⊙ Collaborative care.
- ⊙ Ethical issues in critical care.
- ⊙ Helping communication.
- ⊙ Effects of the critical care environment on patients and families.

1.4. Applied Pharmacology.

- ⊙ Positive inotropic agents.
- ⊙ Nitrates.
- ⊙ Calcium channel blockers.
- ⊙ Heparin.
- ⊙ Amiodarone (Cordarone).
- ⊙ Aminophylline.

- ⊙ Anticholinergic bronchodilators.
- ⊙ Beta 2 agonists.
- ⊙ Combivent.
- ⊙ Mannitol.
- ⊙ Midazolam (Dormicum).
- ⊙ Morphine.
- ⊙ Non-depolarising muscle relaxants.

2. Integrated assessment:

2.1. Formative:

Theory.

Written tests X 2.

Projects and assignments as specified by the institution.

Practica.

Clinical evaluations:

- ⊙ Arterial pressure monitoring.
 - ⊙ Recording of a 12-lead ECG.
 - ⊙ Interpretation of a 12-lead ECG.
- ⊙ Endotracheal suctioning.
- ⊙ Tracheostomy care.
- ⊙ Extubation.
- ⊙ Assessing of raised intracranial pressure.
- ⊙ Renewal of parenteral nutrition.

2.2. Summative:

Theory.

Written
examination.

Practica.

Final clinical
examination.

This examination
consists of a
comprehensive
practical evaluation,
which is carried out
at the bedside.