

## INSTITUTE OF ADVANCED NURSING STUDIES

### **Post-registration Certificate Course in Intensive Care Nursing**

**(05/12/2024 – 12/06/2025)**

**Organised by Institute of Advanced Nursing Studies and  
Conducted by Hong Kong West Cluster**

*The Nursing Council of Hong Kong has approved the Hospital Authority as a provider of  
Continuing Nursing Education (CNE) since 1 December 2005*

## PROGRAM INFORMATION

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### **PROGRAMME AIM(S)**

1. Develop the competence of registered nurses in intensive care nursing in order to ensure a high standard of specialized care for critically ill patients.
2. Provide interactive learning experience that will encourage nurses to develop the skills of analysis and critical awareness in order to stimulate an inquiry approach to both the theory and practice of critical care nursing.
3. Develop the nurses' awareness of relevant evidence-based findings and facilitate integration of these findings into critical care nursing practice.

### **PROGRAMME INTENDED LEARNING OUTCOMES**

Upon completion of the programme, the participants should be able to:

1. Describe the pathophysiology, clinical manifestations, and treatment modalities of diseases / illnesses and conditions in intensive care.
2. Demonstrate skills to perform advanced health assessment and assess the impact of multisystem disorders on the physiological condition of the critically ill patients.
3. Analyze diagnostic findings, laboratory / monitoring results and health assessment data of patients for making nursing judgments, identify the clinical (health) problems and communicate the significance and possible consequences to multidisciplinary team.
4. Apply evidence-based knowledge to construct and evaluate holistic nursing care for patients requiring intensive care.
5. Organize patient care management in terms of multidisciplinary approach and perform specialized

skills in the provision of quality care for critically ill patients.

6. Critically evaluate on-going therapeutic interventions and clinical outcomes of the care and treatment for patients requiring intensive care.
7. Appraise nursing roles in critical care nursing and prepare for taking up advanced nursing practice, leadership, research & resource person roles in clinical setting.
8. Discuss legal & ethical issues in critical care nursing and apply principles in the consideration of ethical dilemmas and legal implications in nursing practice.
9. Appraise the use of evidence-based practice in addressing the patient's concerns and assisting the patient in making informed decision on treatment plan and health needs.
10. Communicate patient's information & needs effectively to members in the multidisciplinary team.
11. Critique methods for evaluating healthcare interventions and outcomes.
12. Demonstrate ability to conduct innovative clinical projects and adopt appropriate research methodology to facilitate continuous quality improvement in the critical care specialty.

## **TARGET PARTICIPANTS**

1. Priority will be given to nurses currently working in adult Intensive Care Units or related departments.
2. Lower priority will be given to nurses who have enrolled in previous PRCC without successful completion.
3. Exemptions: participants who had successfully completed Fundamental Module of PRCC in Intensive Care Nursing within the last three years (2022 – 2024), i.e. 16/12/2021 – 20/01/2022 or 08/12/2022 – 12/01/2023 or 07/12/2023 – 04/01/2024 could be granted direct entry to Module II.

## **ENTRY REQUIREMENTS**

1. Registered nurses with valid practicing certificate issued by the Nursing Council of Hong Kong.
2. Nurses having not less than 24 months post-registration experience.

## **PRE-REQUISITES**

Successful completion of the following training programmes is required:

i) e-learning programme from HA e-Learning Centre (eLc):

1. Nursing Care of Patients with Mechanical Ventilation (2019); and
2. Introduction to Pain Management; and
3. Wound Management; and
4. Principles in Legal Decision Making; and
5. Web-based Basics in Procedural Sedation Safety Training Course (by HAHO PS&RM)

ii) classroom-based programme

1. Advanced Cardiac Life Support
2. ECG course of not less than 8 hours in duration (Class-room based or zoom based programme)

## **EXIT REQUIREMENTS**

Course participant should:

1. **Attend** the “Overview of the Online Training Module” session (via Zoom on 05/12/2024 09:00-10:00) **AND complete all** the Online Training Modules in the **eLC+ platform on or before 27/12/2024 23:59**. A quiz is included at the end of each e-Learning course. It comprises of multiple-choice questions with multiple attempts allowed during the period (05/12/2024 – 27/12/2024) and course participant should attain **100% pass**.
  - For details of Online Training Modules, please refer to the **PROGRAMME DESIGN** below.
  - Participants **with Exemptions** (i.e. direct entry to Module II) are **NOT** required for the Online Training Modules.
2. Have at least 80% attendance in Theory Part of Module II and 90% attendance in Clinical Practicum in accordance with the prevailing IANS Assessment Guidelines, and
3. Complete and pass all of the required coursework & assessments including written examination, patient care study, group project and continuous clinical assessment.

## **CLASS SIZE**

~82 Registered Nurses working in Hospital Authority

## **LANGUAGE MEDIUM**

Both English and Cantonese will be used in class. All written assignments and assessments should be in English.

## **PROGRAMME DURATION**

05/12/2024 – 12/06/2025

## **PROGRAMME DESIGN**

This program consists of theoretical input (Module I & Module II) and clinical practicum.

### **A. Theoretical input**

#### ***Module I – Fundamental Module (Online Training Modules)***

The participants are required to complete the e-Learning courses in the **eLC+ platform on or before 27/12/2024 23:59 (i.e. 6 days before the Day 1 of Module II)**.

(Participants **with exemptions** i.e. direct entry to Module II are **NOT** required to complete the followings)

Module I 05/12/2024 to 27/12/2024	Online Training Module Total 19 Topics		Duration (Total 22 hours)
	Topic	Speaker	
1.	<b>Overview of the Online Training Module (via Zoom on 05/12/2024 09:00-10:00)</b>	Mr. YU Man Kit, Manager(N), IANS, HAHO Mr. LAI Chi Keung Peter, NC(AICU/Intensive Care), QMH	<b>1</b>
2.	Total Patient Assessment	Ms. POON Shing Tak Toby, NTEC NC(Intensive Care)/ PWH NC(ICU), NTEC / PWH	1
3.	Applied Cardiovascular Physiology	Mr. LAO Wing Yung Benny, APN(ICU), CMC	1
4.	Cardiovascular Assessment in Critically Ill Patients	Mr. LAO Wing Yung Benny, APN(ICU), CMC	1
5.	Management of Shock	Ms. CHAN Kwok Ting, APN(ICU), TMH	1
6.	Advanced Hemodynamic Monitoring and related Nursing Care	Ms. YUEN Wai Shan, NTEC ANC(Intensive Care)/ NDH ANC(ICU), NTEC / NDH	2
7.	Resuscitation Highlights	Mr. LAI Chi Keung Peter, NC(AICU/Intensive Care), QMH	1
8.	Applied Respiratory Physiology	Mr. WONG Yiu Chung Paul, KCC ANC (ICU) / QEH ANC (ICU), KCC / QEH	1
9.	Respiratory Assessment and monitoring in Critically Ill Patients	Mr. WONG Yiu Chung Paul, KCC ANC (ICU) / QEH ANC (ICU), KCC / QEH	1
10.	Interpretation of Common Laboratory Findings and ABG Interpretation	Dr. YU Suet Ying Judianna, RTSKH AC(M&G) / NCSTC Deputy Director (Medical) RTSKH / NCSTC	2
11.	Oxygen Therapy and Humidification	Ms. YIP Nga Shan Stephanie, Dep WM / APN(ICU) YCH	1
12.	Transport of Critically Ill Patients	Mr. WONG Sai Leung, NC(ICU) TMH	1
13.	Nursing Management on Patients Requiring Mechanical Ventilation	Ms. LEUNG Tsun Ting Justina, APN(ICU) PYNEH	1
14.	Airway Management	Ms. WAN Tsz Kee, NC(ICU) KWC & CMC	1
15.	Tracheostomy Care	Ms. WONG Yi Ting, APN(ICU) PMH	1
16.	Fluid and Electrolytes Management: Practical Issues	Dr. CHAN Sze Man Mandy, NTWC CC(Q&S) / NTWC AC(ICU) NTWC	2
17.	Applied Neurological Physiology	Ms. Vivian KWOK, KCC NC(Stroke), QEH NC(Stroke) KCC, QEH	1
18.	Neurological Assessment in Critically Ill Patients	Ms. Vivian KWOK, KCC NC(Stroke), QEH NC(Stroke) KCC, QEH	1

19.	Non-invasive Mechanical Ventilation and Related Nursing Care	Mr. LAI Kam Piu, APN(ICU) UCH	1
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**Module II – Specialty-specific Module**

Day	Date	Time	Activity	Venue
Day 1	02/01/2025	09:00 – 17:30	Study Day	Lecture Theatre, M/F, HA Building, 147B Argyle Street, Kowloon
Day 2	09/01/2025	09:00 – 17:30	Study Day	
Day 3	16/01/2025	09:00 – 17:30	Study Day	
Day 4	23/01/2025	09:00 – 17:30	Study Day	
Day 5	06/02/2025	09:00 – 17:30	Study Day	
Day 6	13/02/2025	09:00 – 17:30	Study Day	
Day 7	20/02/2025	09:00 – 17:30	Study Day	Lecture Theatre, 2/F, Block T, QMH
Day 8	27/02/2025	09:00 – 17:30	Study Day	Lecture Theatre, M/F, HA Building, 147B Argyle Street, Kowloon
Day 9	06/03/2025	09:00 – 17:30	Study Day	
Day 10	13/03/2025	09:00 – 17:30	Study Day	
Day 11	20/03/2025	09:00 – 17:30	Study Day	
Day 12	27/03/2025	09:00 – 17:30	Study Day	
Day 13	10/04/2025	09:00 – 17:30	Intensive Care Workshop	A&E Simulation Training Centre, 3/F & LG/F, Tang Siu Kin Hospital, Community Ambulatory Care Centre, 282 Queen's Road East, Wan Chai
Day 14	15/05/2025	09:00 – 13:15	Written Examination	Lecture Theatre, 2/F, Block T, QMH
		14:15 – 17:30	Study Day	
Day 15	12/06/2025	09:00 – 17:30	Group Project Presentation	Lecture Theatre, M/F, HA Building, 147B Argyle Street, Kowloon

**B. Clinical Practicum: 12 Weeks' net**

Period: 20/01/2025 to 11/5/2025

include 8 Public Holidays:

29, 30, 31/01/2025;

04, 18, 21/04/2025; &

01, 05/05/2025.

## **TRAINING CONTENT**

The content covers the following three core elements:

### **(I) Care Management**

#### **1. Cardiovascular System:**

- 1.1 Knowledge in the pathophysiology of complex cardiovascular conditions.
- 1.2 Managing clients with the following complex conditions:
  - 1.2.1 Arrhythmias and heart blocks
  - 1.2.2 Coronary artery disease and myocardial infarction
  - 1.2.3 Heart failure
  - 1.2.4 Hypertensive crisis
  - 1.2.5 Cardiac tamponade

#### **2. Respiratory System:**

- 2.1 Knowledge in the pathophysiology of complex respiratory conditions.
- 2.2 Managing clients with the following complex conditions:
  - 2.2.1 Acute respiratory failure
  - 2.2.2 Acute respiratory distress syndrome
  - 2.2.3 Pneumonia
  - 2.2.4 Obstructive lung disease
  - 2.2.5 Restrictive lung disease
  - 2.2.6 Acute pulmonary oedema
  - 2.2.7 Pneumothorax
  - 2.2.8 Pulmonary hypertension
  - 2.2.9 Pulmonary embolism

#### **3. Neurologic System:**

- 3.1 Knowledge in the pathophysiology of complex neurological conditions.
- 3.2 Managing clients with the following complex conditions:
  - 3.2.1 Seizure and status epilepticus
  - 3.2.2 Stroke
  - 3.2.3 Neuromuscular diseases
  - 3.2.4 Infections of neurologic system
  - 3.2.5 Intensive care delirium
  - 3.2.6 Potential brain stem death

#### **4. Renal System:**

- 4.1 Knowledge in the pathophysiology of complex renal conditions.
- 4.2 Managing clients with the following complex conditions:
  - 4.2.1 Acute kidney injury

#### 4.2.2 Electrolyte imbalance

### 5. Gastrointestinal System:

- 5.1 Knowledge in the pathophysiology of complex gastrointestinal conditions.
- 5.2 Managing clients with the following complex conditions:
  - 5.2.1 Acute gastrointestinal disorders and major gastrointestinal surgeries
  - 5.2.2 Intra-abdominal hypertension

### 6. Endocrine System:

- 6.1 Knowledge in the pathophysiology of complex endocrine conditions.
- 6.2 Managing clients with the following complex conditions:
  - 6.2.1 Hyperglycaemic emergencies
  - 6.2.2 Acute hypoglycaemia
  - 6.2.3 Syndrome of inappropriate antidiuretic hormone
  - 6.2.4 Diabetes insipidus
  - 6.2.5 Thyroid emergencies

### 7. Haematologic and Immunologic System:

- 7.1 Knowledge in the pathophysiology of complex haematologic and immunologic conditions.
- 7.2 Managing clients with the following complex conditions:
  - 7.2.1 Disseminated intravascular coagulation
  - 7.2.2 Immunodeficiency and immunosuppressive disorders

### 8. Multi-system and Trauma Care:

- 8.1 Knowledge in the pathophysiology of complex multi-system conditions and trauma.
- 8.2 Managing clients with the following complex conditions:
  - 8.2.1 Shock
  - 8.2.2 Systemic inflammatory response syndrome
  - 8.2.3 Multiple organ dysfunction syndrome
  - 8.2.4 Sepsis
  - 8.2.5 Anaphylaxis
  - 8.2.6 Cardiopulmonary arrest
  - 8.2.7 Poisoning and toxicity
  - 8.2.8 Thermal disorders
  - 8.2.9 Emerging and re-emerging infectious diseases

## **(II) Knowledge and Skill Application**

### 1 Knowledge and clinical skills to perform:

- 1.1 Comprehensive assessment on cardiovascular, respiratory, neurologic, renal and gastrointestinal systems and multi-systems

- 1.2 Perform pain assessment, sedation level assessment and nutritional assessment.
- 2 Apply bedside monitoring devices and interpret related findings such as:**
  - 2.1 12-lead electrocardiogram and interpretation
  - 2.2 Advanced haemodynamic monitoring and interpretation such as arterial blood pressure, pulmonary arterial pressure and cardiac output
  - 2.3 Respiratory monitoring and interpretation such as oxygen saturation and waveform capnography
- 3 Interpret results of laboratory tests and findings of radiological investigations.**
  - 3.1 Interpretation of laboratory results such as arterial blood gas, liver function test, renal function test, coagulation profile and complete blood picture.
  - 3.2 Interpretation of common radiological finding.
- 4 Apply advanced treatment modalities and evaluate clients' responses to the therapies such as:**
  - 4.1 Cardiac pacing
  - 4.2 Invasive and non-invasive mechanical ventilation
  - 4.3 Electrical therapy (defibrillation, synchronized cardioversion)
  - 4.4 Continuous renal replacement therapy
  - 4.5 Targeted Temperature Management
- 5 Apply knowledge in clinical pharmacology related to drugs commonly used in intensive care settings such as inotropes, vasopressors, antiarrhythmic agents, neuromuscular blocking agents, analgesics, sedations, anti-infective agents and monitor drug effects to achieve pharmacological goals for the clients.**
  - 5.1 Titration of vasoactive agents
  - 5.2 Titration of analgesics
  - 5.3 Titration of sedatives
  - 5.4 Special dosing considerations
- 6 Facilitate therapeutic interventions and / or implement strategies to stabilize critical health problems, manage clinical deterioration and prevent complications. Common interventions include:**
  - 6.1 Airway management
  - 6.2 Management of difficult airways
  - 6.3 Oxygen therapy
  - 6.4 Tracheostomy care
  - 6.5 Prone positioning for complex pulmonary disorders
  - 6.6 Deep vein thrombosis prophylaxis
  - 6.7 Parenteral and enteral nutrition
  - 6.8 Bowel management



- 6.9 Glycemic control
- 6.10 Massive blood transfusion
- 6.11 Resuscitation and post-resuscitation care
- 6.12 Management of poisoning and toxicity
- 6.13 Deceased organ donor management
- 6.14 Infection control measures
- 6.15 Care bundles adopted for prevention of specific healthcare-associated infections

**7 Possess knowledge and capability to provide nursing management for the following conditions and interventions:**

- 7.1 Aortic dissection
- 7.2 Aortic aneurysm
- 7.3 Cardiothoracic surgical disorders
- 7.4 Traumatic brain injury
- 7.5 Intracranial hypertension
- 7.6 Trauma
- 7.7 Burns injury
- 7.8 Spinal injury
- 7.9 Obstetrical emergencies
- 7.10 Acute head & neck disorders and major head & neck surgeries
- 7.11 Intra-aortic balloon pump
- 7.12 Intra-cranial pressure monitoring
- 7.13 Electroencephalography

**8 Provide safe and seamless care during intra- or inter-facility transportation of critically ill clients.**

- 8.1 Planning, preparation and communication for intra- or inter-facility transportation of critically ill clients.
- 8.2 En-route safety and prevention of transport-related complications
- 8.3 Transport of clients with complex healthcare needs such as mechanical ventilation and intra-aortic balloon pump
- 8.4 Identification and management of en-route adverse events

**(III) Therapeutic and Caring Relationship**

Knowledge and skill to establish a therapeutic and caring relationship with clients and their significant others to enhance effectiveness of care and to achieve therapeutic goals.

**TEACHING & LEARNING STRATEGIES**

- Self-directed study
- Lectures
- Group discussion

- Tutorials – scenario discussion
- Group projects (including presentation)
- Patient care study
- Debate session
- Skill workshop
- Case sharing & presentation in clinical practicum
- Clinical teaching & supervised clinical practice

## **ASSESSMENT**

Components	Date / submission deadline	Weighting
<b>A. Written Assessment</b>		
1. Written Examination	15/05/2025	60%
2. Group Project	12/6/2025 (09:00 – 17:30)	20%
(I) Written Report	** Submission **	(10%)
	- Topic: on or before 17:00 2/1/2025 (Day 1)	
	- Project outline: on or before 17:00 23/1/2025 (Day 4)	
	- Project work (written assignment & presentation PowerPoint) on or before 17:00 22/5/2025	
(II) Oral Presentation	12/06/2025	(10%)
3. Patient Care Study	17:00 20/4/2025	20%
<b>B. Continuing Clinical Assessment</b>	On the last day of Clinical Practicum	100%

The participants are required to attain 50% or above in each component of the written assessment and the continuing clinical assessment.

## **AWARD OF CERTIFICATE**

An electronic Certificate of Achievement will be awarded to those participants who have completed all parts of the program and passed all assessments.

## **CNE POINTS**

This program is equivalent to 361 CNE points.

Theoretical Input:	105 hours (105 CNE points)
Online Training Module:	22 hours (22 CNE points)
Clinical Practicum:	468 hours (234 CNE points)

## **PROGRAMME DIRECTOR**

Mr. YU Man Kit  
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## **CO-PROGRAMME DIRECTOR**

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## **ENQUIRY**

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## **PROGRAM DEVELOPMENT AND REVIEW COMMITTEE**

HAHO	IAN	Ms. Selina NG	Dep Head of IANS, <b>Chairperson</b>
	IAN	Mr. YU Man Kit	Manager (N), IANS, <b>Program Director</b>
HKWC	QMH	Mr. YU Kin Yip	DOM (AICU), <b>Co-Program Director</b>
	QMH	Mr. LAI Chi Keung, Peter	NC (AICU / Intensive Care), <b>Co-Program Director</b>
	QMH	Mr. K H WONG	APN(CND), <b>Co-Program Director</b>
HKEC	PYNEH	Ms. LO Wan Po, Joanna	NC (Intensive Care)
	PYNEH	Ms. KWAN Yuen Fan, Eva	DOM (ICU)
	RTSKH	Ms. Gloria TSE	DOM (M&G, ICU)
KCC	QEH	Ms. LAM Chung Ling	DOM (ICU & CTS)
	QEH	Ms. Vicky TSANG	Dep DOM (ICU)
	QEH	Ms. WONG Hoi Mei, Ruby	NC (Intensive Care)
	KWH	Ms. LEE Sui Fong	DOM (ICU)
KEC	UCH	Ms. Cecilia FUNG	Deputizing DOM (ICU)

	UCH	Mr. HUI Chi Ming	NC (Intensive Care)
	TKOH	Ms. KWOK Man Kit	DOM (MED Specialties Services)
KWC	CMC	Ms. Pamela LEE	DOM (ICU & HDU)
	KWC & CMC	Ms. WAN Tsz Kee	NC (Intensive Care)
	PMH & YCH	Ms. MAK Wai Ling	DOM (ICU)
	PMH	Ms. LEUNG Wai See	NC (Intensive Care)
NTEC	AHNH	Ms. TAM Yee Kwan	DOM (Med / ICU)
	NDH	Ms. TANG Pui Yi	DOM (ICU)
	PWH	Ms. HO Ka Man	DOM (ICU)
	PWH	Ms. POON Shing Tak, Toby	NC (Intensive Care)
NTWC	TMH & POH	Ms. Laurinda MAK	DOM (ICU & Neuro)
	TMH	Mr. WONG Sai Leung	NC (Intensive Care)

### **LIST OF VISITING LECTURERS**

HKEC	PYNEH	Ms. LO Wan Po, Joanna	NC (Intensive Care)
	PYNEH	Mr. YEUNG Kai Jone	ANC (ICU)
	PYNEH	Ms. WONG Siu Fung	APN (ICU)
	RTSKH	Mr. CHAN Ching Sum, Sampson	ANC (ICU)
HKWC	QMH	Mr. LAI Chi Keung, Peter	NC (AICU / Intensive Care)
	QMH	Mr. CHAN Man Hung	ANC (AICU)
KCC	QEH	Ms. WONG Hoi Mei, Ruby	NC (Intensive Care)
	QEH	Mr. WONG Yiu Chung, Paul	ANC (ICU)
	QEH	Ms. WONG Pui Shan	APN (ICU)
	QEH	Ms. WONG Wing Yan	APN (ICU)
	KWH	Mr. TO Tik Hang	ANC (ICU)
KEC	UCH	Mr. HUI Chi Ming	NC (Intensive Care)
	UCH	Mr. CHAN Yui Fung	ANC (ICU)
	UCH	Ms. SHANG Sheau Tyan, Catherine	APN (ICU)
	UCH	Mr. YEUNG Man Chau	APN (ICU)

	TKOH	Ms. YEUNG Mui Fong	ANC (ICU)
KWC	CMC	Ms. WAN Tsz Kee	NC (Intensive Care)
	CMC	Mr. LAO Wing Yung, Benny	APN (ICU)
	CMC	Ms. LEE Suk Yin Jayco	APN (ICU)
	PMH	Ms. LEUNG Wai See	NC (Intensive Care)
	PMH	Ms. WONG Yi Ting	APN (ICU)
	YCH	Ms. LEE Lai Fong	ANC (ICU)
NTEC	PWH	Ms. POON Shing Tak, Toby	NC (Intensive Care)
	PWH	Ms. CHU Ngar Wan	ANC (ICU)
	PWH	Mr. PUN Man Tun	APN (ICU)
	AHNNH	Ms. LEE Ka Wan	APN (ICU)
	NDH	Ms. YUEN Wai Shan	ANC (ICU)
	NDH	Mr. LI Cheuk Kong	APN (ICU)
NTWC	TMH	Mr. WONG Sai Leung	NC (ICU)
	TMH	Ms. NGAN Chun Man	ANC (ICU)
	TMH	Mr. TIN Yin Hong	APN (ICU)
	TMH	Mr. LAM Tsz Yin	ANC (ICU)
	TMH	Mr. LIN Ka Fai Calvin	ANC (ICU)

**Post-registration Certificate Course in Intensive Care Nursing**  
***(Organized by IANS & conducted by HKWC)***  
**05/12/2024 – 12/06/2025**

**Timetable**

**(TBC)**

