

**INSTITUTE OF ADVANCED NURSING STUDIES**

**Post-registration Advanced Certificate Course in**

**Orthopaedics & Traumatology Nursing 2024/25**

**(03/01/2025 – 29/08/2025)**

**Organised by the Institute of Advanced Nursing Studies and conducted by NTEC**

*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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### **PROGRAM AIMS**

1. Enhance nurses' competence in Orthopaedic nursing for providing specialized care
2. Prepare nurses for taking advanced extended roles and responsibilities in Orthopaedic nursing

### **PROGRAM INTENDED LEARNING OUTCOMES**

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

1. Understand the applied anatomy and physiology of musculoskeletal system
2. Explain the concepts of emergency, pre- operative & post-operative nursing care, human responses to pathophysiological changes and related treatment in patients with musculoskeletal disorders
3. Assess and prioritize patients with these problems in physical, physiological, psychological, social and spiritual aspects
4. Identify problems and apply problem solving skills for patients with general non-complicated musculoskeletal disorders
5. Analyze and identify problems in patients with complex and complicated musculoskeletal disorders at different stages of patients' disease journey
6. Demonstrate nursing skills in handling patients with different types of orthopaedic disorders
7. Apply integrated problem solving and multi- disciplinary approach to patients with musculoskeletal disorders
8. Integrate and revise the care delivery through reflective learning

## **TARGET PARTICIPANTS**

1. Nurses in RN rank
2. Priority will be given to those who are currently working in Orthopaedics and Traumatology Departments / Wards / Units in HA hospitals / institutions
3. Nurses who have previously enrolled in PRCC without successful completion may be given low priority
4. Participant who successfully completed the following trainings will be eligible to apply for direct entry to Module II:
  - a. Fundamental Course in Orthopaedics & Traumatology Nursing within 3 years i.e.:
    - i. 14, 21 & 28/12/2021 + Plaster of Paris (POP) Workshop
    - ii. 07 & 21/02/2023 + POP Workshop + E- Learning Courseware (07/02- 09/03/2023)
    - iii. E- Learning Courseware (16/01- 14/02/2024) + POP Workshop; **OR**
  - b. A structured certificate course “Basic Course in Orthopaedics & Traumatology for Nurses”  
\* within 5 years i.e.:
    - i. Course completion after 01 Jan 2020

\*: Organized by the Hong Kong Association of Orthopaedic Nurses and Hong Kong College of Orthopaedic Nursing in Orthopaedic Nursing with at least 20 class contact hours and requires a pass in the assessment

## **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

## **EXIT REQUIREMENTS**

1. Completed all parts of the training including the POP workshop, stimulation training and e-courseware
2. Passed all parts of assessments of the training including the e- quiz, written examination, group project, patient care study and continuing clinical assessment

## **CLASS SIZE**

82

## **LANGUAGE MEDIUM**

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

## **PROGRAM DURATION**

03/01/2025 – 29/08/2025

## **PROGRAM DESIGN**

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

### **A. Theoretical input**

#### ***Module I – Fundamental Module***

##### ***Part IA: E- Learning Courseware***

The participants are required to complete the following e-Learning courses in the **eLC+ platform** **on or before 02/02/2025 23:59**

No.	Title of E- Learning Courseware
1	Principles of Fracture Management
2	Basic Wound Care in Orthopaedics
3	Upper Limb Injury
4	Lower Limb Injury
5	Basic Laboratory & Imaging Interpretation
6	Orthopaedic Emergencies
7	Physical Assessment in Orthopaedics
8	Demonstration Use of Common Splint, Brace and Bandaging Technique
9	Pressure Injury in Orthopaedics Patients
10	Care of External Fixator
11	Nursing Management of Amputation
12	General Nursing Management of Sport Injury
13	Nursing Management in Orthopaedic Emergencies

##### ***Part IB: POP Workshop***

The participants are required to attend the **POP workshop as a compulsory session** in order to complete module I successfully. They will be assigned to attend **only one of these 4 sessions**.

Please reserve all dates for POP workshop upon your enrollment.

Group	Date	Time	Venue	Activity
A	16/01/2025	09:00 – 13:00	SOPD, G/F, Block A, DKCH	POP Workshop
B	16/01/2025	14:00 – 18:00		
C	23/01/2025	09:00 – 13:00		
D	23/01/2025	14:00 – 18:00		

#### ***Module II – Specialty- specific Module***

**\*Participant must successfully complete all components in Module I before entry to Module II\***

Day	Date	Time	Activity	Venue / Online
Day 2	07/02/2025	09:00 – 17:15	Study Day	Practical Room, Block D, SH
Day 3	14/02/2025	09:00 – 17:15	Study Day	
Day 4	21/02/2025	09:00 – 17:15	Study Day	
Day 5	28/02/2025	09:00 – 17:15	Study Day	
Day 6	07/03/2025	09:00 – 17:15	Study Day	
Day 7	14/03/2025	09:00 – 17:15	Study Day	

Day 8	19- 21/03/2025	09:00 – 12:30 14:00 – 17:30	Simulation Training	Accident & Emergency Training Centre, RTSKH
Day 9	28/03/2025	09:00 – 17:15	Study Day	Practical Room, Block D, SH
Day 10	01/04/2025	09:00 – 17:15	Study Day	
Day 11	11/04/2025	09:00 – 17:15	Study Day	
Day 12	16/04/2025	09:00 – 17:15	Study Day	
Day 13	25/04/2025	09:00 – 17:15	Study Day	
Day 14	02/05/2025	09:00 – 17:15	Study Day	
Day 15	09/05/2025	09:00 – 17:15	Study Day	
Day 16	09/06/2025	09:00 – 13:15	Written Examination	
Day 17	28/08/2025	09:00 – 17:15	Group Project Presentation	Lecture Theatre, M/F, HAB

## **B. Clinical Practicum: 6 Weeks**

10/06/2025 to 21/07/2025 (PH on 01/07/2025)

1. 6 weeks in Orthopaedics and Traumatology Departments / Wards / Units
  - Alice Ho Miu Ling Nethersole Hospital, Dept. of Orthopaedics and Traumatology
  - Caritas Medical Centre, Dept. of Orthopaedics and Traumatology
  - Kwong Wah Hospital, Dept. of Orthopaedics and Traumatology
  - North District Hospital, Dept. of Orthopaedics and Traumatology
  - Pamela Youde Nethersole Eastern Hospital, Dept. of Orthopaedics and Traumatology
  - Prince of Wales Hospital, Dept. of Orthopaedics and Traumatology
  - Princess Margaret Hospital, Dept. of Orthopaedics and Traumatology
  - Queen Elizabeth Hospital, Dept. of Orthopaedics and Traumatology
  - Queen Mary Hospital, Dept. of Orthopaedics and Traumatology
  - Tseung Kwan O Hospital, Dept. of Orthopaedics and Traumatology
  - Tuen Mun Hospital, Dept. of Orthopaedics and Traumatology
  - United Christian Hospital, Dept. of Orthopaedics and Traumatology
  - Yan Chai Hospital, Dept. of Orthopaedics and Traumatology
2. 4 weeks in Orthopaedics and Traumatology Departments / Wards / Units
  - Ruttonjee & Tang Shiu Kin Hospitals, Dept. of Orthopaedics and Traumatology (Partial center)
  - Pok Oi Hospital, Dept. of Orthopaedics and Traumatology (Partial center)

Plus another 2 week in Orthopaedics and Traumatology Departments/Wards/Units listed in B(1) above

## **TRAINING CONTENT**

With the development of sub-specialties, the program would be divided into 5 distinctive parts focusing on different sub- specialties in Module II

### **Module I: Fundamentals in Orthopaedics & Traumatology Nursing**

### **Module II: Advanced Orthopaedic Nursing Practices**

Part A	General Orthopaedics, Musculoskeletal Tumour & Infection, Paediatric Orthopaedics
Part B	Trauma sub- specialty
Part C	Hand and Foot sub- specialty
Part D	Spine sub- specialty
Part E	Joint replacement and sports injuries sub- specialty

### **Module I: Fundamentals in Orthopaedics & Traumatology Nursing**

1. Basic laboratory and imaging Interpretation
2. Basic wound care in Orthopaedics
3. Care of the external fixator
4. Casting Principle and general nursing care
5. Demonstration use of common splint and brace care and bandaging technique
6. General nursing management of sports injury
7. Hand-on workshop on POP and synthetic casting
8. Infection control and complications of cast
9. Lower limb Injury
10. Nursing management of amputation
11. Nursing Management in Orthopaedic emergency
12. Orthopaedic emergency
13. Physical assessment in Orthopaedics
14. Pressure injury in Orthopaedics
15. Principle of fracture management
16. Upper limb injury

### **Module II: Advanced Orthopaedic Nursing Practices**

#### **Part A: General Orthopaedics, Musculoskeletal Tumour & Infection, Paediatric Orthopaedic**

1. Advanced pain management for orthopaedic patients
2. Advanced wound management in orthopaedics
3. Advances in occupational therapy for orthopaedic patients
4. Advances in physiotherapy for orthopaedic patients
5. Burn and scald
6. Clinical alertness on orthopaedic medications
7. Common paediatric orthopaedic problems
8. Day surgery and nurse- led pre- operative assessment
9. Injection of biologics and other therapeutic substances in treatment of common orthopaedics conditions
10. Integrated model of orthopaedic bone health
11. Lower limb conditions and injuries
12. Microbiologist's perspectives in orthopaedic conditions
13. Musculoskeletal cancer
14. Musculoskeletal infection and management
15. Nurse's role in pain management for orthopaedic patients
16. Nursing management of musculoskeletal rehabilitation

17. Nursing management of clients with musculoskeletal cancer
18. Nursing management of patients with musculoskeletal infection
19. Rheumatic disease
20. Paediatric orthopaedic nursing
21. Peri- operative nursing in orthopaedic nursing
22. Prosthetic and orthotic interventions for orthopaedic patients
23. Radiographic investigation and interpretation in orthopaedics
24. Radiotherapy and chemotherapy in musculoskeletal tumors
25. Speech therapy for orthopaedic patients
26. The application of hyperbaric oxygen therapy in orthopaedics
27. Traditional chinese medicine in orthopaedic pain management
28. Using evidence- based practice in orthopaedic nursing service

#### **Part B: Trauma sub-specialty**

1. Demonstration skeletal traction / skin traction / halter traction
2. Fracture liaison service for fragility fracture
3. Fragility fracture
4. Fragility fracture, osteoporosis and frailty in geriatric patients
5. Helicopter transfer of patient with orthopaedic problems
6. Hip denervation for inoperable hip fracture
7. Management of compound fracture
8. Management of major trauma & pelvic fracture
9. Nursing management of fragility hip fracture
10. Nursing management of clients with compound fracture and pelvic fracture

#### **Part C: Hand and Foot Sub- specialty**

1. Advanced in foot problem and their management: Podiatric perspective
2. Diabetic ischemic limb management
3. Foot and ankle problems
4. Hand, wrist and upper limb conditions
5. Microvascular surgery in orthopaedics
6. Nursing management of clients with diabetic limb
7. Nursing management of patients with lower limb amputation
8. Nursing management of patients with microvascular surgery in orthopaedics
9. Surgical considerations in lower extremity amputation
10. Upper extremity injuries

#### **Part D: Spinal Sub- specialty**

1. Acute management of spinal cord injuries and new trends in spinal surgery
2. Advanced nursing management of clients with spinal cord injuries
3. Common spinal problems
4. Neurophysiology service
5. Nursing management of halo fixation and traction
6. Scoliosis problems
7. Spinal rehabilitation: Nursing care
8. Spinal rehabilitation: Overall concept

### **Part E: Joint Replacement and Sport Injuries Sub- specialty**

1. Advanced nursing management of patients with joint reconstruction
2. Advances in joint reconstruction surgery
3. Complication after total joint replacement
4. Enhanced Recovery After Surgery (ERAS) in joint reconstruction surgery
5. Nursing management of injuries in shoulder and knee
6. Sport medicine

### **TEACHING & LEARNING STRATEGIES**

1. Lectures and demonstrations
2. Group discussion
3. Tutorials
4. Group projects (*including oral presentation*)
5. Case studies
6. Clinical teaching & supervised clinical practice
7. Simulation training
8. Self- directed learning

### **ASSESSMENT**

Components	Date / Submission deadline	Weighting
<b>A. Written Assessment</b>		
1. Written Examination	09/06/2025	50%
2. Group Project		30%
- Written Report	21/08/2025	(15%)
- Oral Presentation	28/08/2025	(15%)
3. Patient Care Study	21/07/2025	20%
<b>B. Continuing Clinical Assessment</b>	21/07/2025	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 244.5 CNE points (Pending).

Theoretical Input: 102 hours (102 CNE points)

Online Training Module: 18.5 hours (18.5 CNE points)

POP Workshop:	3.75 hours (3.5 CNE points)
Simulation Training:	3.5 hours (3.5 CNE points)
Clinical Practicum:	6 weeks (117 CNE points)

### **PROGRAM DIRECTOR**

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