



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **HLTCT407C Remove orthopaedic devices**

**Release: 1**

## **HLTCT407C Remove orthopaedic devices**

### **Modification History**

Not Applicable

### **Unit Descriptor**

#### **Descriptor**

This unit of competency describes the skills and knowledge required to remove orthopaedic devices. Orthopaedic devices include both braces and splints that can be either prefabricated and/or customised

### **Application of the Unit**

#### **Application**

Work is performed at the request of, and in consultation with, medical staff but requires a range of well developed skills where some discretion and judgement is required and individuals take responsibility for the quality of their outputs

Removal of orthopaedic devices may occur in various locations within the hospital environment e.g. operating theatres, emergency department, wards, client out of care departments

All activities are carried out in accordance with organisation policies, procedures and infection control guidelines

### **Licensing/Regulatory Information**

Not Applicable

### **Pre-Requisites**

Not Applicable

## Employability Skills Information

### Employability Skills

This unit contains Employability Skills

## Elements and Performance Criteria Pre-Content

Elements define the essential outcomes of a unit of competency.

The Performance Criteria specify the level of performance required to demonstrate achievement of the Element. Terms in italics are elaborated in the Range Statement.

## Elements and Performance Criteria

### ELEMENT

1. Prepare to remove *orthopaedic devices*

### PERFORMANCE CRITERIA

- 1.1 Assemble and check *equipment* for removing orthopaedic devices to ensure that it is in clean and in working order
- 1.2 Receive request to remove of orthopaedic device and if in doubt confirm request with *relevant personnel*
- 1.3 Assess *client's condition* and identify *precautions* or potential *complications* associated with the removal of orthopaedic device
- 1.4 Explain procedure to client and obtain client consent/agreement
- 1.5 Provide the client with opportunities to ask questions and discuss areas of concern
- 1.6 Meet the comfort and safety *needs of the client* and applicator
- 1.7 Review condition of the wound and pin site and refer to relevant personnel as required

**ELEMENT****PERFORMANCE CRITERIA**

- |                                           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Remove orthopaedic device              | 2.1 Identify client's specific needs in relation to the removal of orthopaedic device<br>2.2 Remove the orthopaedic device according to instructions and to meet the client's needs<br>2.3 Meet the comfort and safety needs of the client<br>2.4 Assess the client's condition and identify <i>the need for referral for immediate review by medical practitioner</i><br>2.5 Complete <i>documentation</i> |
| 3. Undertake post modification procedures | 3.1 Clean client at completion of procedure<br>3.2 Ensure the Neurovascular status of limb is within normal limits<br>3.3 Provide verbal <i>advice</i> to client and carer for the care of the limb until next appointment with medical specialist<br>3.4 Arrange <i>appropriate support</i> for the client                                                                                                 |
| 4. Clean working environment              | 4.1 Dispose of waste in accordance with waste management policies<br>4.2 Clean equipment accordance with manufacturer's specifications and stored safely<br>4.3 Clean work surfaces in accordance with infection control guidelines                                                                                                                                                                         |

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

#### *Essential knowledge:*

The candidate must be able to demonstrate essential knowledge required to effectively do the task outlined in elements and performance criteria of this unit, manage the task and

## REQUIRED SKILLS AND KNOWLEDGE

manage contingencies in the context of the identified work role

This includes knowledge of:

- Anatomical positioning for removal of orthopaedic device
- Anatomy and physiology relevant to orthopaedic device application and removal
- Confidentiality requirements of client information
- Current standards and best practice relevant to orthopaedic device application and removal
- Interpretation of documentation relating to removal of orthopaedic devices
- Medical terminology relevant to orthopaedic device application and removal
- Organisation policy and procedures, including Infection control and OHS
- Precautions and complications related to application and removal of orthopaedic devices

### *Essential skills:*

It is critical that the candidate demonstrate the ability to

- Apply current standards and best practice to meet duty of care to client
- Communicate effectively with clients in relation to the procedure and manage clients' anxiety level
- Comply with policies and procedures including those of OHS and infection control
- Demonstrate all steps that must be taken in the correct and safe usage of equipment
- Recognise boundaries of responsibilities and refer problems to supervisor or other appropriate health professionals
- Select appropriate material and use correct techniques for removal of orthopaedic devices

In addition, the candidate must be able to effectively do the task outlined in elements and performance criteria of this unit, manage the task and manage contingencies in the context of the identified work role

This includes the ability to:

- Apply current standards and best practice relevant to orthopaedic device application and removal
- Communicate with people from diverse cultural and linguistic backgrounds
- Correctly and safely remove a orthopaedic device
- Deal with conflict
- Solve problems including the ability to use available resources
- Take into account opportunities to address waste minimisation, environmental responsibility and sustainable practice issues
- Use numeracy skills ranging from the ability to complete basic arithmetic calculations, recording stock levels and statistical information
- Use oral communication skills required to fulfil job roles in a safe manner and as

## REQUIRED SKILLS AND KNOWLEDGE

specified by the organisation, including skills in:

- asking questions
- providing clear information
- listening to and understanding workplace instructions
- clarifying workplace instructions when necessary
- competence in English or a community language, depending on client group and organisation requirements
- Use effective verbal and non verbal communication skills with a range of internal and external persons
- Use reading and writing skills required to fulfil job roles in a safe manner and as specified by the organisation to the level of skill required for:
  - reading and documenting clinical information
  - understanding policy and procedure manuals
- Work with others and display empathy with client and carers

## Evidence Guide

### EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

*Critical aspects for assessment and evidence required to demonstrate this competency unit:*

- The individual being assessed must provide evidence of specified essential knowledge as well as skills
- Where, for reasons of safety, space, or access to equipment and resources, assessment takes place away from the workplace, the assessment environment should represent workplace conditions as closely as possible
- Consistency of performance should be demonstrated over the required range of situations relevant to the workplace

## EVIDENCE GUIDE

*Context of and specific resources for assessment:*

- Relevant organisation policy, guidelines, procedures and protocols

*Method of assessment:*

- Clinical skills involving direct client care are to be assessed initially in a simulated clinical setting (laboratory). If successful, a second assessment is to be conducted during workplace application under direct supervision.
- Observation of work activities when removing orthopaedic devices
- Observation of simulation and/or role play when removing orthopaedic devices
- Discussion of physical and/or behavioural contingency scenarios involving duty of care
- Authenticated transcripts of relevant education/training courses
- Recognition of relevant life/work experience
- Questioning, written assessments/projects, e-learning can be used to assess knowledge
- Authenticated reports of experience in removing orthopaedic devices (Documentation associated with performance reviews, supervisor/co-ordinator evaluations of work performance)
- Training records associated with first aid, occupational health and safety training, orientation/induction training, safe manual handling, universal infection control procedures
- Case study and scenario as a basis for discussion of issues and strategies to contribute to best practice

## EVIDENCE GUIDE

- Access and equity considerations:*
- All workers in the health industry should be aware of access and equity issues in relation to their own area of work
  - All workers should develop their ability to work in a culturally diverse environment
  - In recognition of particular health issues facing Aboriginal and Torres Strait Islander communities, workers should be aware of cultural, historical and current issues impacting on health of Aboriginal and Torres Strait Islander people
  - Assessors and trainers must take into account relevant access and equity issues, in particular relating to factors impacting on health of Aboriginal and/or Torres Strait Islander clients and communities

*Related units:*

This unit should be assessed in conjunction with:

- HLTCT405C Apply orthopaedic devices
- HLTCT406C Modify orthopaedic devices

## Range Statement

### RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

- Types of orthopaedic devices may include:*
- Brace
  - Splint

**RANGE STATEMENT***Equipment may include:*

- Allen keys
- Arm/knee/buttock block
- Benders
- Bracing equipment
- Hacksaw
- Heat gun
- Saw with vacuum
- Scissors
- Shears
- Spanners
- Spreaders
- Vice

*Relevant personnel may include:*

- Medical practitioners
- Other health professionals

*Clients may include:*

- Adolescents
- Adults
- Children
- Elderly
- In care clients and out of care clients
- Infants

*Assessment of client's condition may include:*

- Allergies
- Mechanism of injury
- Relevant medical history
- Skin condition e.g. oedema, blisters, pressure areas, broken skin, fragile skin

*Precautions may include:*

- Timeframe of cast/splint application too short
- Unstable fracture

*Complications may include:*

- Breaking skin integrity
- Burning feeling in skin

**RANGE STATEMENT**

*Clients specific needs may include:*

- Age
- Functional requirements or restrictions
- Mobilisation difficulties or restrictions
- Physical anomalies
- Religious and cultural beliefs

*Need to refer clients for immediate review by a medical practitioner may include:*

- Intense localised pain
- Neurovascular status outside normal limits
- Non union/instability of fracture
- Wound breakdown/deterioration

*Documentation may include:*

- Appliance hire documentation
- Appointment forms and books
- Cast check forms
- Client records
- Work log books

*Advice given to client may include:*

- Limb care
- Mobilisation exercises/routines
- Oedema control
- Weight bearing status until consultation with medical specialist

*Appropriate support may include:*

- Arrangement of educational material
- Instructions for seeking advice if required
- Organisation of walking aids e.g. crutches, wheelchairs
- Review client's social needs in relation to their ability to self care with a orthopaedic device

**Unit Sector(s)**

Not Applicable