



Australian Government

Assessment Requirements for HLTOTH002

Modify casts

Release: 1

Assessment Requirements for HLTOTH002 Modify casts

Modification History

No equivalent unit.

Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- modify one of each of the following casts:
 - split cast
 - bi-valve cast
 - cut windows
 - trim casts
 - re-pad casts
 - reinforce casts
 - heel wedges
 - wedging a cast
 - converting including completion and addition.

The modification of each of the above must include:

- interpreting referrals, sourcing information, liaising with the healthcare team and following instructions within the healthcare setting
- reviewing, treating, advising and referring clients:
 - paediatrics
 - adults
- selecting, using and maintaining equipment:
 - arm, knee and buttock block
 - benders and cast breakers
 - cast bracing equipment
 - eye protection equipment
 - goniometer
 - hearing protection
 - plaster trap
 - saw with vacuum
 - scissors
 - shears
 - spreaders
 - tape measure

- vice
- selecting and using materials:
 - abduction bars
 - bandages
 - cast shoes
 - dry dressing
 - felts, foams and padding
 - hinges
 - plaster
 - quadrilateral bucket
 - stockinettes
 - strapping
 - synthetic materials including fibreglass
 - tapes
 - undercast padding
- selecting and using aids:
 - ambulation aides
 - gait aides
 - heel
 - overshoes
 - sling
- documenting clinical records.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- procedures relevant to cast modification:
 - client confidentiality and privacy
 - client consent
 - duty of care
 - infection control
 - inventory
 - work health and safety
- role and responsibilities and boundaries of responsibilities relevant to cast modification
- anatomy and physiology relevant to cast modification
- methods for interpreting radiological findings and features of x-rays, CT scans and MRI scans relating to casts and the presenting condition
- conditions for referral of clients for immediate review by a medical practitioner:
 - evidence of infection

- Deep Vein Thrombosis (DVT)
- Complex Regional Pain Syndrome (CRPS)
- intense localised pain
- neurovascular status outside normal limits
- wound breakdown and deterioration
- individual client needs:
 - developmental stage including paediatrics and adults
 - in clients and out clients
 - functional requirements and restrictions
 - mobilisation difficulties and restrictions
 - level of anxiety
 - physical anomalies
 - religious and cultural beliefs
 - environment and climate
- pathology and assessment of client conditions:
 - allergies
 - mechanism of injury
 - interference
 - non-union fracture
 - oedematous extremity
 - wires, pins, external fixatures and surgical wounds
 - medical history and co-morbidities
 - skin condition including oedema, blisters, pressure areas, broken skin, fragile skin and wound breakdown
- precaution types, characteristics and resolution:
 - loss of fracture position
 - loss of soft tissue position
 - pressure area prevention due to modification
- complication types, characteristics and resolution:
 - pressure areas including tissue necrosis
 - foreign objects in casts
 - splints
 - cast breakdown
 - cast migration due to loss of tissue bulk
 - compromising related injury
 - fracture blisters
 - loss of movement and function
 - malalignment of bone
 - neurovascular complications including poor capillary refill and altered sensation
 - nerve damage

- infection
- reduced range of movement and function of joint
- secondary infection
- wound breakdown
- purpose of cast modification
- cast modification techniques:
 - anatomical positioning
 - protective cover for broken skin with aseptic technique
 - split cast
 - bi-valve cast
 - cut windows
 - trim casts
 - re-pad casts
 - reinforce casts
 - heel wedges
 - converting including completion and addition
- cast material purpose, selection and safe use:
 - abduction bars
 - bandages
 - cast shoes
 - dry dressing
 - felts, foams and padding
 - hinges
 - plaster
 - quadrilateral bucket
 - stockinettes
 - strapping
 - synthetic materials including fibreglass
 - tapes
 - undercast padding
- cast modification equipment purpose, selection, safe use and maintenance:
 - arm, knee and buttock block
 - benders and cast breakers
 - eye protection equipment
 - goniometer
 - hearing protection
 - plaster trap
 - saw with vacuum
 - scissors
 - shears

- spreaders
- tape measure
- vice
- aid purpose, selection and safe use:
 - ambulation aides
 - gait aides
 - heel
 - overshoes
 - sling
- medications relevant to cast modification and future care
- types of client advice:
 - cast care and warnings
 - limb care and neurovascular warnings
 - mobilisation exercises and routines
 - oedema control
 - fitness to drive
 - weight bearing status
 - safe use of gait aides
- clinical record requirements
- medical terminology relevant to cast modification.

Assessment Conditions

Skills must be demonstrated in a real workplace with real patients in a clinical environment with the addition of simulations and scenarios with real people where the full range of contexts and situations cannot be provided in the workplace.

Where simulation is used, it must reflect real working conditions in a clinical environment by modelling industry operating conditions and contingencies, as well as using suitable facilities, equipment and resources.

Assessment must ensure use of:

- procedures relevant to cast modification
- clients listed in the Performance Evidence
- equipment listed in the Performance Evidence
- materials listed in the Performance Evidence
- aids listed in the Performance Evidence
- personal protective equipment (PPE)
- manufacturer's instructions for all equipment and materials.

Assessors must satisfy the Standards for Registered Training Organisations' requirements for assessors; and have current clinical experience working as an Orthopaedic Technologist or Technician providing services to the general public.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705>