



**Australian Government**

# **Assessment Requirements for MSTMF4011 Produce corrective orthoses**

**Release: 1**

# Assessment Requirements for MSTMF4011 Produce corrective orthoses

## Modification History

Release 1. Supersedes and is equivalent to LMTMF6007A Produce corrective orthoses

## Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- produced two corrective orthoses for different clients with different needs.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- elements and principles of medical grade orthoses and footwear design and how orthoses are used to meet specified requirements
- applied anthropometrics of the foot, including the variables in, and effects of physical force systems on the body, and other physical characteristics of commercial orthoses and footwear
- effects of different types of corrective orthoses on the foot, ankle, leg and pelvic and lower back functions
- footwear and component construction methods and standards used to produce and modify corrective orthoses to meet specifications, including:
  - diagnostic and definitive constructions
  - hand and machine-based techniques
  - product and testing quality standards
- corrective orthoses inclusions:
  - removable inserts
  - incorporated ankle-foot orthoses (AFO)
  - shoes
  - post-operative
  - therapy footwear
- corrective orthoses materials typically used to produce corrective orthoses:
  - rubber
  - ethyl vinyl acetate (EVA) and polyurethane foams
  - PVC resins
  - plastics
  - vacuum moulding and laminating carbon glass
  - Kevlar fibre

- requirements and consequences of corrective orthoses factors, including:
  - biomechanical requirements
  - volume expansion
  - functional and positioning
- approaches to problems that require corrective posting or support of foot and ankle:
  - drop foot splint
  - arthrodesis inner shoe to stabilise foot or ankle complex and exclude movement
  - solutions to correct excessive rear foot pronation
- procedures to translate information into working patterns
- cast check requirements
- administrative functions related to the construction of corrective orthoses
- legal, ethical and work health and safety (WHS) requirements associated with producing footwear and orthoses.

## Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - a workspace used to produce and adjust orthoses using hand and machine-based techniques
  - safety equipment and standard operating procedures
- modelling of industry operating conditions, including access to clients.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>