



Australian Government

MSTMF4007 Produce accommodative orthoses

Release: 1

MSTMF4007 Produce accommodative orthoses

Modification History

Release 1. Supersedes and is equivalent to LMTMF5003A Produce accommodative orthoses.

Application

This unit of competency describes the skills and knowledge required to produce and fit accommodative orthoses that are made to assist with foot problems that require maintenance or pressure relief, such as pressure sores or metatarsalgia, without correcting the foot structure or position.

Work is generally conducted in a small business situation. The unit may apply to a sole practitioner, or someone working directly with medical grade footwear practitioners.

No licensing, legislative or certification requirements apply to this unit at the time of publication

Pre-requisite Unit

N/A

Unit Sector

Medical grade footwear

Elements and Performance Criteria

Elements	Performance Criteria	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
1. Determine initial job requirements	1.1	Select accommodative orthoses materials that reflect requirements of client condition and requirements for durability and performance
	1.2	Consult other health professionals to clarify or provide additional information
2. Produce technical drawing of accommodative orthoses	2.1	Produce initial three-dimensional (3D) design of cast
	2.2	Specify materials to be used in accommodative orthoses construction
	2.3	Specify anatomical matching, key references and specific performance requirements of accommodative orthoses

Elements	Performance Criteria	
	2.4	Specify dimensions and tolerances using appropriate drawing symbols
3. Produce and post basic form	3.1	Review cast specifications for accuracy, material selection, 3D design and consistency with technical drawing and prescription if applicable
	3.2	Make changes and refinements as necessary, including balancing aesthetic needs with footwear and condition requirements
	3.3	Produce basic form to fitting accuracy of $\pm 1\text{mm}$
	3.4	Correct and post basic form to accommodative orthoses standard
4. Conduct trial fitting of accommodative orthoses	4.1	Produce accommodative orthoses for trial
	4.2	Modify existing shoes for trial accommodative orthoses
	4.3	Perform diagnostic fitting of accommodative orthoses
	4.4	Interpret results of fitting for possible changes to accommodative orthoses design and materials
5. Manufacture accommodative orthoses	5.1	Construct accommodative orthoses to specifications
	5.2	Make allowance for variation between trial and final accommodative orthoses
	5.3	Check dimensions and shape of accommodative orthoses against specifications
	5.4	Modify existing shoes for accommodative orthoses if necessary
	5.5	Finish off accommodative orthoses to established quality standards
6. Deliver and fit accommodative orthoses	6.1	Check fitting and make adjustments as required to meet client needs
	6.2	Clarify function, management and maintenance procedures for accommodative orthoses with client
	6.3	Explain arrangements for follow-up to client
	6.4	Complete record keeping procedures and administrative tasks

Elements	Performance Criteria	
7. Follow up client	7.1	Check function and state of accommodative orthoses during follow-up
	7.2	Assess client condition, adjust medical grade footwear treatment where required, and update client file

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria of this unit of competency.

- Oral communication skills to interact effectively with clients and suppliers
- Numeracy skills to:
 - take accurate measurements
 - identify and confirm timelines and costs

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTMF5003A Produce accommodative orthoses.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSTMF4007 Produce accommodative orthoses

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Performance Evidence

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

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

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of accommodative orthoses to suit differing needs
- 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
- construction techniques, tools and equipment used to produce and modify accommodative orthoses to meet specifications, including hand and machine-based techniques
- product and testing quality standards
- materials typically used to produce accommodative orthoses:
 - rubber
 - ethyl vinyl acetate (EVA) and polyurethane foams
 - cork
 - leather
- biomechanical requirements of orthoses, including volume expansion and functional and positioning requirements
- computer-aided design and production techniques
- safe work practices associated with producing and fitting accommodative 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, technology 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.

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