



Australian Government

MSFOPS201 Make measurements and calculations

MSFOPS201 Make measurements and calculations

Modification History

Release	Comments
1	This unit of competency was first released in MSF Furnishing Training Package Release 9.0.

Application

This unit of competency describes the skills and knowledge required to identify the measuring equipment required in work tasks, and make and record accurate measurements and calculations. It includes identifying and responding to routine problems with the process.

The unit applies to individuals who take measurements and make calculations as part of their job role in the furnishing sector.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

Licensing/Regulatory Information

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

Pre-requisite unit(s)

No prerequisite units.

Competency field(s)

N/A

Unit sector(s)

Operations (OPS)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>

1. Identify required measurements and equipment	1.1 Identify measuring units to be used, and the level of detail required from work instructions 1.2 Select measuring equipment and method suited to the task 1.3 Check condition and calibration of measuring equipment, and confirm it is fit for purpose
2. Take measurements	2.1 Take measurements using mathematical techniques suited to task 2.2 Check accuracy and correctness of numerical information against expected range of results 2.3 Record results to required level of detail and accuracy according to workplace standards
3. Carry out calculations	3.1 Identify data from measurement activity required to perform calculations, and confirm against work instructions 3.2 Determine calculation methods and techniques suited to task 3.3 Carry out calculations and check accuracy of results against expected range of results 3.4 Record results to required level of detail and accuracy according to workplace standards
4. Address routine and non-routine errors	4.1 Identify errors that occur during measurement and calculation activity 4.2 Take action to eliminate risk of errors 4.3 Identify and take necessary action to rectify errors 4.4 Log and report errors according to workplace standards

Foundation Skills

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

Skill	Description
Reading	- Interpret familiar workplace documentation, including: - work instructions and orders - product and material specifications
Numeracy	Use measuring and calculating tools in familiar applications

	• Perform familiar and predictable calculations with the four operations (+, -, x, ÷) (addition, subtraction, multiplication and division) • Accurately measure and calculate quantities
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Range of conditions

No conditions apply to this unit of competency at the time of publication.

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
MSFOPS201 Make measurements and calculations	MSFGN2001 Make measurements and calculations	Unit code updated Application updated Performance Criteria updated Assessment Requirements updated	Equivalent

Assessment Requirements for MSFOPS201 Make measurements and calculations

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has made measurements and calculations for at least three different projects.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose for measuring and calculating in workplace context
- mathematical principles including the four operations (+, -, x, ÷) (addition, subtraction, multiplication and division)
- problem-solving strategies to make basic measurements and calculations
- uses and limitations of equipment used to take measurements and make calculations, including:
 - calculating devices
 - callipers
 - digital measuring devices using laser or equivalent technology
 - digital or manual corner/angle gauges
 - levelling devices
 - rulers
 - tape measures
- calibration and testing techniques for digital and manual measuring devices
- workplace procedures and protocols relating to:
 - handling materials and products while undertaking measurement to minimise damage
 - recording and reporting outcomes of measurement and calculation

- reporting errors
- quality standards.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - assessment must occur in the workplace, or in an environment that accurately reflects workplace conditions and contingencies
- resources, equipment and materials:
 - measuring and calculating equipment
 - recording equipment
- specifications:
 - project plans and briefs
 - quality standards and enterprise procedures
- relationships:
 - supervisor.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>.