



Australian Government

FSKNUM23 Estimate, measure and calculate measurements for work

Release: 1

FSKNUM23 Estimate, measure and calculate measurements for work

Modification History

Release	Comments
Release 1	This streamlined version first released with <i>FSK Foundation Skills Training Package version 1.0</i> .

Application

This unit describes the skills and knowledge to estimate and measure quantities, to convert units within the metric system and between metric and non-metric units, to calculate area and volume including compound shapes and to use Pythagoras' theorem.

This unit applies to individuals who need numeracy skills at Australian Core Skills Framework (ACSF) level 4 to undertake a vocational training pathway or workplace tasks.

This unit is designed for integration and contextualisation with vocational units to support achievement of vocational competency.

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

Unit Sector

Numeracy

Elements and Performance Criteria

Element	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Estimate and make measurements for work	1.1 Extract and interpret measurement information embedded in workplace texts and tasks 1.2 Identify and select appropriate workplace measuring equipment 1.3 Estimate and make accurate measurements
2. Undertake mathematical calculations involving measurement	2.1 Calculate the area of 2D shapes including compound shapes 2.2 Calculate the volume of 3D shapes using relevant formulas 2.3 Calculate sides of right angled triangles using Pythagoras'

Element	Performance Criteria
	theorem 2.4 Perform conversions between units of measurement 2.5 Use problem solving processes to undertake the task
3. Check and communicate results	3.1 Review and check the measurement outcomes 3.2 Record the information using mathematical language and symbols appropriate for the task

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Learning		Sequencing multi-step calculations
Technology		Using a scientific calculator

Mapping Information

Not applicable

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=f572fe10-a855-4986-9295-3852c771f178>

Assessment Requirements for FSKNUM23 Estimate, measure and calculate measurements for work

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Performance Evidence

Evidence of the ability to:

- make accurate measurements
- calculate area and volume of shapes including compound shapes
- calculate sides of triangles using Pythagoras' theorem
- make conversions between units.

Note: Where a specific volume and/or frequency is not specified, evidence must be provided at least once.

Knowledge Evidence

Evidence of the following knowledge must be demonstrated:

- units of measurement for specific workplace tasks
- names and basic properties of a range of 2D and 3D shapes
- Pythagoras' theorem.

Assessment Conditions

Assessment texts and tasks reflect those typically found in the workplace.

Individuals can access a range of established support resources.

Culturally appropriate processes and techniques suited to the language, literacy and numeracy capacity of individuals and the work being performed must be used.

Reasonable adjustments can be made to ensure equity in assessment for people with disabilities.

Assessors must satisfy NVR/AQTF assessor requirements, have a sound knowledge of the ACSF and have demonstrable expertise in the vocational contextualisation and assessment of the core skill - numeracy.

Links

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