



Australian Government

FSKNUM21 Apply an expanding range of mathematical calculations for work

Release: 1

FSKNUM21 Apply an expanding range of mathematical calculations 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 extract and evaluate mathematical information and make a range of calculations including positive and negative numbers, rates and ratios, and powers and roots.

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. Extract and interpret mathematical information	1.1 Extract mathematical information embedded in a range of workplace tasks and texts 1.2 Interpret and comprehend mathematical information
2. Undertake mathematical calculations involving multiple steps	2.1 Select from and use a range of mathematical and problem solving processes 2.2 Flexibly use different forms of fractions, decimals and percentages

Element	Performance Criteria
	2.3 Calculate with positive and negative numbers 2.4 Express numbers as powers and roots and use in calculations 2.5 Calculate using routine formulas
3. Check and communicate results	3.1 Use estimation and assessment processes to check outcome 3.2 Use mathematical language to discuss and explain the processes, results and implications of 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
Writing		Records steps of calculation and result, uses symbolism appropriate to task
Technology		Uses 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 FSKNUM21 Apply an expanding range of mathematical calculations for work

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Performance Evidence

Evidence of the ability to:

- extract, interpret and use mathematical information
- perform calculations involving fractions, decimals, percentages, positive and negative numbers, basic powers and roots and routine formulas
- perform multi-step calculations
- apply calculations to workplace contexts and tasks.

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:

- equivalent value of fractions, decimals and percentages
- relationship between powers and roots
- workplace application of negative numbers
- order of operations and use of brackets and parentheses.

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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