



Australian Government

FSKNUM041 Use chance and probability calculations for work

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with FSK Foundation Skills Training Package Version 2.0.

Application

This unit describes the skills and knowledge to use chance and probability to estimate and interpret the outcomes of common chance events in both numerical and qualitative terms. It includes extracting and interpreting common chance information, calculating chance and probabilities for workplace tasks, and communicating chance and probability information.

An individual performing these tasks works independently and uses support from a range of established resources.

This unit applies to individuals who use, or are preparing to use, numeracy skills to complete workplace activities. This includes existing workers and individuals preparing for employment through vocational education and training. This unit should be integrated and contextualised with vocational training to support achievement of vocational competency.

This unit is aligned to, but does not fully address, the Australian Core Skills Framework (ACSF) numeracy core skill indicators .09, .10 and .11 at level 4 in the workplace and employment domain of communication.

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 common chance information	1.1 Identify, interpret and extract common chance and probability information embedded in a range of written workplace tasks and texts 1.2 Identify and interpret common chance and probability

Element	Performance Criteria
	information embedded in workplace tasks and texts to complete workplace task
2. Calculate chance and probabilities for workplace tasks	2.1 Select mathematical and problem solving strategies to undertake workplace task 2.2 Identify workplace task/event for probability calculation and define events and outcomes 2.3 Conduct experiments and display results 2.4 Interpret the outcome of common chance event in numerical and qualitative terms 2.5 Check and reflect on mathematics used, outcomes, and workplace and real-world implications using estimation and evaluation techniques
3. Communicate chance and probability information	3.1 Use formal, informal and some specialised written mathematical representation to document, interpret and communicate chance and probability processes, results and implications 3.2 Use formal, informal and some specialised mathematical language to discuss and explain chance and probability processes, results and implications

Foundation Skills

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

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for FSKNUM041 Use chance and probability calculations for work

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- perform multi-step mathematical problem solving processes to investigate at least two common workplace chance events, including:
 - enumerating and evaluating the probability of at least two workplace events and interpreting in numerical and qualitative terms
 - comparing the probability of the above events and assessing and reporting implications for workplace.
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Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- workplace events in which chance and probability data and investigation can be informative
- methods to collect data or conduct experiments
- methods to interpret chance events in both numerical and qualitative terms
- estimation and assessment processes
- implications of calculations and results for workplace tasks
- specialised, formal and informal mathematical written and oral language and symbolism relevant to chance and probability.
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Assessment Conditions

Competency is to be assessed in the workplace, a workplace simulated environment or a vocational training context.

Assistive technologies can be utilised to assist with oral and written communication.

Skills must be demonstrated using complex texts and tasks that reflect those typically found in a workplace.

The following resources are to be made available:

- a calculator
- own familiar support resources.

Assessors must:

- satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards, and
- have sound knowledge of the ACSF and performance features of the ACSF level being assessed, and
- have demonstrable expertise, knowledge and skills in the vocational contextualisation and assessment of the core skill, numeracy, and
- have completed the following or equivalent:
 - TAESS00009 Address Foundation Skills in Vocational Practice Skill Set; or
 - a higher level education qualification, such as:
 - TAE80113 Graduate Diploma of Adult Language, Literacy and Numeracy Practice (and its equivalent TAE70111); or
 - Bachelor of Education, Graduate Certificate or Graduate Diploma of Education, or higher. This may include qualifications relating to TESOL, adult education or vocational education.
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