



Australian Government

Assessment Requirements for FSKNUM033

Collect, organise and analyse complex statistical data 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.

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 a broad range of multi-step mathematical problem solving processes with statistical data and information to complete sophisticated workplace tasks, including:
 - collecting, organising, displaying and analysing statistical data on at least one occasion to meet a workplace purpose, including:
 - using appropriate methods to collect data
 - using ungrouped and grouped data
 - calculating summary statistics, including:
 - measures of central tendency (mean, median and mode)
 - measures of spread (including standard deviation)
 - percentiles
 - representing data in appropriate graphical formats to illustrate the data and its features
 - interpreting data, including:
 - data trends
 - data validity and reliability
 - identification of any misleading information
 - using relevant technology such as CAS calculator, spreadsheets or other mathematical or workplace software
 - making estimations to check problem solving outcomes and determine appropriate accuracy required for task
 - critically reviewing mathematic processes and outcomes obtained, and evaluating real-world implications.
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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:

- relevance of data to the workplace
- data collection methods and types of data relevant to workplace
- types, features and uses of a range of graphs and statistical representations
- differences between grouped and ungrouped data
- measures of central tendency (mean, median and mode)
- measures of spread including standard deviation
- purpose and use of relevant technology such as CAS calculator, spreadsheets or other mathematical or workplace software
- developed estimation and assessment processes
- implications of calculations and results for workplace tasks
- specialised and formal mathematical written language and symbolism required to document, interpret and communicate statistical analysis relevant to workplace task
- specialised mathematical oral language relevant to workplace task.
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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 independently using highly complex texts and tasks that reflect those typically found in a workplace.

The following resources are to be made available:

- a scientific calculator
- data utilised in the performance evidence
- 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.

Links

Companion Volume Implementation Guide is found on VETNet -

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