



Australian Government

# **FSKNUM32 Use and calculate with complex measurements for work**

Release: 1

# FSKNUM32 Use and calculate with complex 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 use and calculate with complex measurements. This includes calculating complex areas and volumes.

This unit applies to individuals who need numeracy skills at Australian Core Skills Framework (ACSF) level 5 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 analyse measurement information        | 1.1 Extract measurement information that may be highly embedded in complex texts<br>1.2 Analyse and comprehend complex measurement information                                                                         |
| 2. Undertake mathematical processes using measurement | 2.1 Estimate and make accurate measurements<br>2.2 Calculate the surface area and volume of complex shapes<br>2.3 Solve complex problems involving measurement<br>2.4 Perform conversions between units of measurement |

| Element                          | Performance Criteria                                                                                                                     |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Check and communicate results | 3.1 Review and check the outcomes<br>3.2 Use and 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                                                                  |
|------------|----------------------|------------------------------------------------------------------------------|
| Technology |                      | <ul style="list-style-type: none"><li>Uses a scientific calculator</li></ul> |

## 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 FSKNUM32 Use and calculate with complex measurements for work

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### Performance Evidence

Evidence of the ability to:

- calculate surface areas of complex shapes
- calculate volumes of complex shapes
- solve highly complex workplace measurement problems.

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 needed for workplace tasks
- properties of a broad range of shapes.

### Assessment Conditions

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

Individuals can access a broad range of 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.

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