



Australian Government

FSKNUM032 Use and calculate with complex measurements 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 and calculate with complex measurements. This includes extracting and analysing highly complex workplace measurement information, completing workplace measurement tasks with a range of highly developed mathematical and problem solving strategies and techniques, and communicating workplace mathematical information.

An individual performing these tasks works autonomously and accesses and evaluates support from a broad range of sources as needed.

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 5 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 analyse workplace measurement	1.1 Extract highly embedded specialised measurement information

Element	Performance Criteria
information	<p>from a range of complex workplace texts and tasks</p> <p>1.2 Analyse and synthesise complex measurement information required to complete workplace task</p> <p>1.3 Incorporate information from other sources to inform and support analysis of the extracted information, where necessary</p>
2. Undertake mathematical processes using measurement	<p>2.1 Select method of solution from an expanded range of highly developed mathematical problem solving strategies and processes to complete workplace measurement task</p> <p>2.2 Estimate measurements and outcomes to complete workplace tasks</p> <p>2.3 Select and use relevant measurement equipment to take accurate workplace measurements against specified tolerances where required</p> <p>2.4 Calculate with measurements to complete complex workplace tasks, including conversions of metric units and with imperial units where required</p> <p>2.5 Check outcomes and critically review mathematics used and implications of results using developed estimation and evaluation techniques</p>
3. Communicate workplace measurement information	<p>3.1 Use formal and specialised written mathematical representation and symbolism to document, interpret and communicate workplace measurement processes, results and implications</p> <p>3.2 Use specialised mathematical and general language to discuss, explain and interpret the workplace measurement processes, results and implications</p>

Foundation Skills

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

Skill	Description
Technology	<ul style="list-style-type: none"> • Uses a scientific calculator

Mapping Information

Supersedes and is equivalent to FSKNUM32 Use and calculate with complex measurements for work.

Links

Companion Volume Implementation Guide is found on VETNet -

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