



Australian Government

FSKNUM37 Use introductory matrices for work

Release: 1

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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 basic matrix calculations in workplace contexts, including practical workplace problems.

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. Demonstrate basic knowledge of matrices and their use	1.1 Demonstrate knowledge of types of matrices 1.2 Identify the use of matrices in the workplace and matrix processes required
2. Undertake mathematical processes using matrices	2.1 Perform matrix calculations 2.2 Evaluate the determinant for square matrices 2.3 Calculate the inverse of a matrix 2.4 Use matrices to solve systems of equations
3. Check and	3.1 Review and check the outcomes

Element	Performance Criteria
communicate the results	3.2 Record and use the result using specialised 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
		Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

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 FSKNUM37 Use introductory matrices for work

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Performance Evidence

Evidence of the ability to:

- perform matrix calculations
- solve simultaneous equations using matrices
- apply matrices to workplace 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:

- types of matrices and use of matrices in workplace tasks.

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.

Links

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