



Australian Government

FSKNUM39 Use introductory calculus 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 introductory concepts of calculus.

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 knowledge of features of graphs of functions	1.1 Identify differences between functions and relations 1.2 Describe the domain and range of a function 1.3 Evaluate functions 1.4 Solve simple equations of the form $f(x) = 0$ 1.5 Sketch graphs of functions and identify key features
2. Calculate limits and find simple derivatives	2.1 Find limits 2.2 Use the standard definition of the derivative of a function 2.3 Use first principles to differentiate simple polynomial functions 2.4 Differentiate simple polynomial functions and use correct notation 2.5 Interpret the gradient at a given point on the graph of a function

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		Uses a scientific calculator and/or graphing software

Mapping Information

Not applicable

Links

Companion volumes from the IBSA website - <http://www.ibsa.org.au>