



Australian Government

FSKNUM35 Use algebraic and graphical techniques to analyse mathematical problems 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 a range of algebraic and graphical techniques to analyse and solve mathematical 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. Manipulate algebraic expressions	1.1 Expand and simplify algebraic expressions and equations 1.2 Factorise algebraic expressions 1.3 Simplify algebraic fractions
2. Draw graphs and interpret the real-life situations they represent	2.1 Draw and describe Cartesian graphs of relevant linear and non-linear algebraic equations 2.2 Identify key features of linear and non-linear graphs 2.3 Describe the impact of adding a constant to an equation 2.4 Explain the real-life situations represented by parabolas, hyperbolas and exponential graphs
3. Solve a range of equations	3.1 Find solutions to linear equations 3.2 Solve quadratic equations 3.3 Solve simultaneous equations 3.4 Solve practical problems involving equations

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