DEMONSTRATE NUMERACY SKILLS

UNIT CODE: AGR/OS/EXT/BC/02/4

UNIT DESCRIPTION

This unit covers the competencies required to perform numerical functions. The person who is competent in this unit shall be able to: Identify and use whole numbers and simple fractions, decimals and percentages; Identify, measure and estimate familiar quantities for work, Read and use familiar maps, plans and diagrams for work, Identify and describe common 2D and some 3D shapes for work, construct simple tables and graphs for work using familiar data, Identify and interpret information in familiar tables, graphs and charts for work.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the required
outcomes which make up	level of performance for each of the elements.
workplace function.	Bold and italicized terms are elaborated in the Range.
1. Identify and use whole	1.1 Simple fractions, decimals and percentages identified and
numbers and simple	interpreted
fractions, decimals and	1.2 understanding of place value by organising numbers from
percentages for work	smallest to largest demonstrated
	1.3 Required numerical information located and decision
	made on appropriate method to solve a problem
	1.4 Limited range of calculations performed using the
	4 operations
	1.5 Links between operations described
	1.6 Estimations made to check reasonableness of results of
	problem-solving process
	1.7 Numerical information recorded, and the result of the task
	communicated using informal and some formal language
	and symbolism

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2. Identify, measure and	2.1	Measurement information in workplace tasks and texts
estimate familiar		identified and interpreted
quantities for work	2.2	Familiar units of measurement needed for tasks is
		identified
	2.3	Familiar and simple amounts estimated
	2.4	Appropriate measuring equipment selected
	2.5	Simple measuring equipment graduated in familiar units
		to measure relevant quantities is used
	2.6	Calculation done using familiar units of measurement
	2.7	Measurements and results checked against estimates
	2.8	Results are recorded or reported
	2.9	Results relevant to the workplace task are communicated
		using informal and some formal mathematical and general
		language
3. Read and use familiar	3.1	Items and places are located in familiar maps, plans and
maps, plans and diagrams		diagrams
for work	3.2	Common symbols and keys recognised in familiar maps,
		plans and diagrams
	3.3	Understanding of direction and location demonstrated by
		describing the location of objects, or route to familiar
		places
	3.4	Instructions to locate familiar objects or places are given
	Ç	and followed
	3.5	Informal and some formal oral mathematical language and
		symbols are used
4. Identify and describe	4.1	Common 2D shapes and some common 3D shapes in
common 2D and some		familiar situations are identified and named
3D shapes for work	4.2	Common 2D shapes and designs are compared and
		classified
	4.3	Informal and some formal language used to describe
		common two-dimensional shapes and some common
		three-dimensional shapes
	4.4	Simple items used to draw or construct common 2D
		shapes
	4.5	Common 3D shapes matched to their 2D sketches or nets

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5. Construct simple tables	5.1 Common types of graphs are identified and named
and graphs for work	5.2 Familiar data to be collected is determined
using familiar data	5.3 A method to collect data is selected
	5.4 A small amount of simple familiar data is collected
	5.5 One or two variables determined from the data collected
	5.6 Data ordered and collated
	5.7 A table constructed, and data enter
	5.8 Graphs are constructed using data from table
	5.9 Results are promptly checked
	5.10 Graph information related to work is reported or discussed
	using informal and some formal mathematical and general
	language
6. Identify and interpret	6.1 Simple tables are identified in familiar texts and contexts
information in familiar	6.2 Title, headings, rows and columns located in familiar
tables, graphs and charts	tables
for work	6.3 Information and data in simple tables identified and
	interpreted
	6.4 Information is related to relevant workplace tasks
	6.5 Familiar graphs and charts are identified in familiar texts
	and contexts
	6.6 Title, labels, axes, scale and key from familiar graphs and
	charts are located
	6.7 Information and data in familiar graphs and charts is
	identified and interpreted
	6.8 Information related to relevant workplace tasks

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range (include but not limited to:)
Simple measuring	• Rulers
equipment	Watches/clocks
	• Scales
	• Thermometers
	AVO meter
Common 2D shapes and common 3D shapes	• Round

	• Square
	 Rectangular
	• Triangle
	• Sphere
	 Cylinder
	• Cube
	 Polygons
	 Cuboids
Diagrammatical	• Charts
representation	 Maps
	 Graphs

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- Applying Fundamental operations (addition, subtraction, division, multiplication)
- Using calculator
- Using different measuring tools

Required knowledge

The individual needs to demonstrate knowledge of:

- Types of common shapes
- Differentiation between two dimensional shapes / objects
- Formulae for calculating area and volume
- Types and purpose of measuring instruments
- Units of measurement and abbreviations
- Fundamental operations (addition, subtraction, division, multiplication)
- Rounding techniques
- Types of fractions
- Different types of tables and graphs
- Meaning of graphs, such as increasing, decreasing, and constant value
- Preparation of basic data, tables & graphs

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical aspects of	Assessment requires evidence that the candidate:
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Competency	1.1 Simple fractions, decimals and percentages are correctly
	identified and interpreted
	1.2 Performed a limited range of calculations using the
	4 operations
	1.3 Performed calculations using familiar units of
	measurement
	1.4 Recognised common symbols and keys in familiar maps,
	plans and diagrams
	1.5 Constructed simple tables and graphs using familiar data
	1.6 Identified and interpret information in familiar tables,
	graphs and charts
2. Resource	2.1 Calculator
Implications	2.2 Basic measuring instruments
3. Methods of	Competency may be assessed through:
Assessment	3.1 Written Test
	3.2 Interview/Oral Questioning
	3.3 Demonstration
4. Context of	Competency may be assessed in an off the job setting
Assessment	
5. Guidance	Holistic assessment with other units relevant to the industry
information for	sector, workplace and job role is recommended.
assessment	
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