DEMONSTRATE NUMERACY SKILLS

UNIT CODE: AQ/OS/AT/BC/02/4/A

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 outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. Bold and italicized terms are elaborated in the Range.
1. Identify and use whole numbers and simple fractions, decimals and percentages for work	 1.1 Simple fractions, decimals and percentages identified and interpreted 1.2 understanding of place value by organising numbers from 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 estimate familiar quantities for work	2.1 Measurement information in workplace tasks and texts identified and interpreted2.2 Familiar units of measurement needed for tasks is
quantities for work	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
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3. Read and use familiar maps, plans and	3.1 Items and places are in familiar maps, plans and diagrams
diagrams for work	3.2 Common symbols and keys recognised in familiar
Giagranis for Work	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 and followed
	3.5 Informal and some formal oral mathematical language and symbols are used
4. Identify and describe common 2D and some	4.1 Common 2D shapes and some common 3D shapes in 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	5.1 Common types of graphs are identified and named
tables and graphs for	5.2 Familiar data to be collected is determined
work using familiar	5.3 A method to collect data is selected
data	5.4 A small amount of simple familiar data is collected
data	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
information in	contexts
familiar tables,	6.2 Title, headings, rows and columns located in familiar
graphs and charts for	tables
• •	6.3 Information and data in simple tables identified and
work	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
	or inclination related to refer that workpared tubils

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
Simple measuring equipment	May include but not limited to: Rulers Watches/clocks Scales Thermometers AVO meter

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Common 2D shapes and common 3D shapes	May include but not limited to: Round Square Rectangular Triangle Sphere Cylinder Cube Polygons Cuboids
Diagrammatical representation	May include but not limited to: Charts 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

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• 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:
1. Critical aspects of	Assessment requires evidence that the candidate.
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 Implications	2.1 Calculator
	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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