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Section 1: Meeting VET sector requirements

Training organisations have a range of requirements that they must meet in developing and implementing quality training and assessment strategies and practices for course programs. As a trainer, you also have a range of requirements that must be considered when implementing programs for your specific group of learners.

1.1 How Aspire's resources assist in meeting requirements

The following section outlines a range of VET sector requirements and how Aspire's resources may assist you and your training organisation in implementing a quality learning experience.

VET sector requirement	Aspire's approach
<p>Australian Qualifications Framework</p> <p>The Australian Qualifications Framework is the national policy for regulated qualifications in the Australian education and training system. The AQF incorporates the quality assured qualifications from each education and training sector into a single comprehensive national qualifications framework.</p> <p>You and your training organisation must be aware of the requirements of the relevant AQF qualification or course requirements, from the endorsed training package, as you implement course delivery.</p>	<p>Aspire's learning resources and checkpoints have been pitched at a level suitable for the unit of competency and the qualifications for which it is relevant, based on the specifications in the Australian Qualifications Framework (AQF) (Second edition, January 2013). For more information regarding these specifications, and to download the Australian Qualifications Framework, visit the AQF website at: www.aqf.edu.au.</p>

Section 2: Unit of competency information

2.1 Unit of competency

FSKNUM15 Estimate, measure and calculate with routine metric measurements for work

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 required to use routine measuring equipment, to convert units within the metric system, to estimate and calculate routine measurements including simple area of rectangles and squares.

This unit applies to individuals who need numeracy skills at Australian Core Skills Framework (ACSF) level 3 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

2.2 Unit of competency assessment requirements

Assessment Requirements for FSKNUM15 Estimate, measure and calculate with routine metric measurements for work

Modification History

Release	Comments
Release 1	This streamlined version first released with <i>FSK Foundation Skills Training Package version 1.0</i> .

Performance Evidence

Evidence of the ability to:

- perform routine measurements
- convert between routine units of measurement
- perform routine measurement calculations
- record results using appropriate unit.

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:

- metric unit prefixes – meaning of milli, centi, kilo
- use of appropriate routine equipment e.g. setting weight scales at zero before weighing.

Assessment Conditions

Assessment texts and tasks reflect those typically found in the workplace.

Individuals can access own familiar 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

Companion volumes from the IBSA website: www.ibsa.org.au

3.2 Delivery plans

The following sample delivery plans can be used to deliver *FSKNUM15 Estimate, measure and calculate with routine metric measurements for work*. These plans, including the time allocations, are suggestions only. You may need to add to them, change them or substitute your own activities according to the interest level, experience of the learners and the specific situation. Remember, it is your responsibility as the trainer to use the most appropriate strategies for your learners.

The delivery plans have been developed for use in a face-to-face delivery environment. However, certain features of the delivery plans can be adapted to be used for individual/online learners, particularly for those parts of the learning content that necessitate some form of group interaction or communication.

Day 1	
Suggested time allocation: 10 hours Suggested resources: <ul style="list-style-type: none"> Recommended reading Slide presentation software 	Slide nos: 5–16
Recommended reading	Terminology checklist
Aspire learner guide <i>FSKNUM15 Estimate, measure and calculate with routine metric measurements for work</i> , Release 1 Day 1	<ul style="list-style-type: none"> Coolroom Quantity Per Weight Length Width Height Area Time – seconds, hours, minutes Temperature Units of measurement – centimetre, millilitre, millimetre, kilogram Measuring equipment – digital clock, analogue clock, timer, stopwatch Timber yard Café Bakery Prefix Small hand, large hand Temperature Thermometers –bulb, cooking, digital Tyre pressure Blood pressure Sphygmomanometer Calibrate

3.3 Learning mapping

FSKNUM15 Estimate, measure and calculate with routine metric measurements for work,
Release 1

Unit of competency	Content	Checkpoint
Element 1: Estimate and make routine measurements for work		
1.1 Select and interpret measurement information in workplace tasks and texts	Day 1: Interpreting measurements Measurements in workplace Units of measurement	CP Day 1: Q 1, 2, 3, 4, 8
1.2 Identify and select appropriate routine measuring equipment	Day 1 Measurements and measuring equipment Using measuring equipment	CP Day 1: Q 5, 6
1.3 Estimate and make measurements using correct units	Day 2 Converting units of measurement Subtracting Using diagrams	CP Day 2: Q 1, 2
Element 2: Undertake calculations involving measurement		
2.1 Estimate and calculate using routine measurements	Day 2 Making calculations Using steps Using hands-on experience Adding lengths Using diagrams	CP Day 2: Q 3, 4, 5, 6
2.2 Perform conversions between routinely used metric units	Day 2 Converting units of measurement Making calculations	CP Day 2: Q 1, 3, 8
2.3 Use problem solving processes to undertake the tasks	Day 2 Making calculations Using a calculator Using steps Adding lengths Subtracting	CP Day 2: Q 3, 4, 5, 9

Section 4: Assessment

4.1 Assessment approach

Assessment is all about collecting evidence and making decisions as to whether or not a learner has achieved competency. Assessment confirms that the learner can perform to the expected workplace standard, as outlined in the units of competency.

This section contains marking guidance for the final assessment tasks in the corresponding Aspire learner guide.

It is an important responsibility of trainers and assessors to complete the assessment records themselves. This ensures all additional assessment activities deemed appropriate, outside those in the Aspire learner guide, are included in these records.

All assessment activities should be undertaken in conjunction with your training organisation's relevant course training and assessment strategy, policies and procedures.

4.3 Assessment mapping

FSKNUM15 Estimate, measure and calculate with routine metric measurements for work,
Release 1

Unit of competency		Part A – Questioning	Part B – Project: Using measurements	Part C – Observation
Element 1: Estimate and make routine measurements for work				
1.1	Select and interpret measurement information in workplace tasks and texts	Q 1, 2		O1
1.2	Identify and select appropriate routine measuring equipment	Q 3, 4		
1.3	Estimate and make measurements using correct units	Q 4, 5	P1	O4
Element 2: Undertake calculations involving measurement				
2.1	Estimate and calculate using routine measurements	Q 5, 6, 7	P3	
2.2	Perform conversions between routinely used metric units	Q 6, 7, 10, 11, 12	P1, P2, P3	O2
2.3	Use problem solving processes to undertake the tasks	Q 5		O3
Element 3: Check and communicate results				
3.1	Make estimations to check reasonableness of problem solving process, outcome and its appropriateness to the context and task	Q 4, 14		O4
3.2	Record the information using mathematical language and symbols appropriate to discuss the task	Q 13	P4	O5
Performance evidence				
PE1	Perform routine measurements	Q 4	P1	O2
PE2	Convert between routine units of measurement	Q 10, 11, 12	P2	O2, O3
PE3	Perform routine measurement calculations	Q 5, 6, 7	P1, P2	O2, O3

4.5 Completing the record of outcome

Once all required assessment tasks and options have been completed satisfactorily by the learner, the final assessment record of outcome form must be completed.

This must be submitted to your training organisation's records administration as soon as possible after the final assessment tasks are completed and marked. An example is provided here.

Record of outcome

Training organisation name:		
Learner name:		
Unit code and title:	<i>FSKNUM15 Estimate, measure and calculate with routine metric measurements for work, Release 1</i>	
Assessor name:		
Assessor email:		
Assessor phone number:		
Assessment tasks:		Satisfactorily completed
	• Part A – Questioning	<input type="checkbox"/>
	• Part B – Project: Using measurements	<input type="checkbox"/>
	• Part C – Observation	<input type="checkbox"/>
Declaration:	<p>In completing this assessment, I confirm that the learner has demonstrated all unit outcomes through consistent and repeated application of skills and knowledge with competent performance demonstrated in multiple instances over a period of time.</p> <p>Evidence collected has been confirmed as:</p>	
	<input type="checkbox"/> Valid <input type="checkbox"/> Current	<input type="checkbox"/> Sufficient <input type="checkbox"/> Authentic