



Australian Government

AHCBAC309A Sample and test grain and related commodities

Release 1

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Modification History

Release	TP Version	Comments
1	AHC10v7	Initial release

Unit Descriptor

This unit covers the process of taking a sample of grain or a similar commodity on receipt at a silo and performing routine grading tests.

Application of the Unit

This unit applies to classifiers of grain and related commodities.

Licensing/Regulatory Information

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare sampling and testing equipment for use	1.1 Testing and sampling instruments are cleaned, calibrated and tested to ensure they are operating effectively in accordance with company, industry and/or legislative requirements 1.2 Repairs and maintenance of sampling and testing equipment are identified and reported 1.3 Cleanliness of sampling and testing equipment is maintained
2. Test a sample	2.1 Load is inspected to confirm commodity type and determine presence of contaminants 2.2 Company sampling requirements/protocols are observed and industry standards and legislative requirements are strictly adhered to 2.3 Supplier information is recorded 2.4 Samples are prepared for testing 2.5 Correct processes are used to prevent mixing or contamination of samples 2.6 All necessary sample information is recorded and maintained
3. Classify a sample	3.1 Appropriate company or industry procedures, commodity charts and guides or legislative requirements for classification are identified 3.2 Testing equipment is identified and operated 3.3 Sample is classified 3.4 The level of defects and contaminants is determined using visual recognition guides and industry reference material 3.5 The grade is determined or the sample is rejected 3.6 The product's owner's storage strategies for the consignment are applied 3.7 Test samples are collected, distributed and/or stored 3.8 Results of testing are accurately recorded

Required Skills and Knowledge

Required skills include:

Ability to:

- identify workplace health and safety hazards and implement safe operating procedures
- operate electronic and non-electronic testing equipment
- keep accurate records
- sample consistently
- make decisions based on test results
- identify cereals, oilseeds, pulses and related commodities
- identify weed seeds and other contaminants
- read and interpret commodity standards
- read, interpret and follow company, industry and/or legislative requirements and work procedures

Required knowledge includes:

Knowledge of:

- workplace health and safety, company, industry and regulatory requirements
- tests performed on grain or related commodities
- unbiased and representative sampling procedures and methods
- specific commodity quality parameters, technical assessment and classification requirements
- testing procedures for conducting a test on a sample
- equipment operating, cleaning and maintenance procedures
- interpreting test results

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • prepare sampling and testing equipment for use • operate sampling and testing equipment • sample and prepare samples for testing • classify grain and related commodity samples • determine product grades based on test results • document classification test results • retain commodity samples as required
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.
Method of assessment	This unit should be assessed by observation of practical activities such as sampling and testing grain and other commodity samples and written or oral questioning of required knowledge.
Guidance information for assessment	To ensure consistency in one's performance competency should be demonstrated on more than one occasion over a period of time in order to cover a variety of circumstances, cases and responsibilities, and where possible, over a number of assessment activities.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>Testing equipment</i> may include:	• equipment specified in commodity standards endorsed by Grain Trade Australia (GTA) • manufacturer's instructions and requirements • standard operating procedures
<i>Company or industry and/or legislative requirements</i> may include:	• industry standards • standard operating procedures • applicable legislative requirements for use of equipment • commodity standards and procedures
<i>Inspection</i> may include:	• visual inspection of commodity to be tested • visual inspection for nil tolerance contaminants i.e. live insects, fertiliser, moulds etc. • smells/odours
<i>Sampling requirements/protocols</i> may include:	• sample collection / storage guidelines • sampling systems
<i>Supplier information</i> may include:	• supplier information: trading name, address, contact details • vehicle registration • NGR number/other identifier • contract number/sale preference/payment options • paddock/field number • declarations – vendor/commodity/variety/chemical • chemical treatments – field/storage
<i>Sample information</i> may include:	• sample identifier • commodity/grade/variety • vehicle/unit registration or number • site tendered • sample type i.e. grower load, cell sample, container sample etc. • represented tonnage
<i>Classification</i> may include:	• variety • physical tests • defects • contaminants • objectionable material

	other where applicable and specific in commodity standards endorsed by Grain Trade Australia (GTA)
Commodity charts/guides may include:	- reference materials within each commodity standards booklet endorsed by Grain Trade Australia (GTA) - visual recognition tools endorsed by Grain Trade Australia (GTA)
Defects and contaminants may include:	- defects are conditions which adversely affect the grain or related commodity seed/kernel - contaminants are material found within the sample that may or may not be cleaned from the commodity under test which may downgrade the sample
Grade may include:	variations in grades of commodities based on specific quality parameters, i.e. variety, protein, test weight, screenings, defects and contaminants, other
Storage strategies may include:	- seasonal - commingling
Results of testing/records may include:	- vendor declarations - transaction number/identifier - commodity receipt/load number - vehicle registration/container number - information to or from supplier - decline/rejected delivery advice - commodity/grade - quality results

Unit Sector(s)

Broad acre cropping