

**Modification history**

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version X.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

AHC BAC304	Test and grade grains and seeds on receipt
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to prepare test equipment, sample and perform receipt tests on delivered grains and seeds, prepare samples for despatch for further tests and prepare for grains and seeds storage.</p> <p>The unit applies to individuals who work under broad direction and take responsibility for own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources and complete routine activities.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Broad Acre Cropping (BAC)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare sampling and testing equipment for use	1.1 Clean, maintain, test and calibrate testing and sampling instruments according to manufacturer instructions 1.2 Identify and report faulty sampling and testing equipment 1.3 Identify work health and safety hazards, assess the risk and implement controls according to workplace procedures
2 Identify grains on receipt	2.1 Inspect load to confirm commodity type 2.2 Identify presence of contaminants 2.3 Record supplier information
3. Collect grains samples for testing	3.1 Collect sample for testing according to workplace sampling procedures and industry standards 3.2 Prevent mixing or contamination of samples 3.3 Label and prepare samples for testing according to workplace procedures and industry standards 3.4 Record sample information
4 Perform initial tests on samples	4.1 Handle samples during testing to prevent cross contamination 4.2 Operate testing equipment to perform required tests according to manufacturer instructions, workplace procedures and industry standards 4.3 Record results of test outcomes according to procedures 4.4 Determine the level of defects and contaminants from visual comparison with industry reference material 4.5 Compare test results with specifications to determine grade of sample 4.6 Accept or reject receipt of commodity according to workplace policies and procedures 4.7 Communicate outcome of tests and acceptance/rejection of delivery to client
5 Despatch samples to testing facilities	5.1 Pack and label samples according to sampling procedures 5.2 Record testing requirements 5.3 Despatch samples to testing facility

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
6. Prepare for storage of grains and seed	6.1 Conduct segregation arrangements of grain and seed according to storage plan 6.2 Complete required site transfer arrangements 6.3 Inspect conveying equipment and identify and report faulty equipment 6.4 Apply workplace biosecurity policies and procedures

<b>Foundation Skills</b>	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Interpret instructions, policies and procedures for sampling and testing of grains and seeds</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Accurately records and completes workplace records, sample labels and test results using clear language, and industry terminology</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Effectively participate in verbal exchanges using collaborative and inclusive techniques including active listening and questioning to convey outcome of receipt process to client</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Perform mathematical calculations for sample tests and interpret results to determine if product is to be received or rejected</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
AHCBAC304 Test and grade grains and seeds on receipt Release 2	AHCBAC304 Test grains and seeds on receipt Release 1	Changes to Title and Application. Consolidated and re sequenced Performance Criteria. Added Foundation Skills. Updated Performance Evidence, Knowledge Evidence and Assessment Conditions.	Equivalent

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a>
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TITLE	Assessment requirements for AHCBAC304 Test and grade grains and seeds on receipt
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has sampled and tested grains or seed on receipt of delivery, including:</p> <ul style="list-style-type: none"> <li>• identified work health and safety hazards, assessed risks and implemented controls</li> <li>• identified grain and seed types on delivery</li> <li>• sampled grains and seeds including: <ul style="list-style-type: none"> <li>• collected representative sample</li> <li>• packaged sample to prevent cross contamination</li> <li>• recorded and labelled samples according to procedures</li> </ul> </li> <li>• identified defects in grain including: <ul style="list-style-type: none"> <li>• split grains and seeds</li> <li>• undersize</li> <li>• chaff</li> <li>• weed seeds and other contaminants</li> <li>• damage</li> </ul> </li> <li>• read, interpreted and applied seed and grain sampling and testing standards</li> <li>• dispatched and stored grains and seeds samples and maintained hygiene</li> <li>• conducted sampling and initial testing</li> <li>• operated testing equipment which must include: <ul style="list-style-type: none"> <li>• manual tests</li> <li>• electronic test equipment</li> </ul> </li> <li>• maintained records.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> <li>• safe operating procedures for handling and storing grain</li> <li>• grain/seed testing processes</li> <li>• industry standards, codes of practice and quality assurance requirements for grains and seeds</li> <li>• testing procedures and parameters for grains, including: <ul style="list-style-type: none"> <li>• protein</li> <li>• weight</li> <li>• oil content</li> <li>• moisture</li> <li>• defects</li> <li>• sprouts</li> </ul> </li> <li>• testing procedures and parameters for seed, including: <ul style="list-style-type: none"> <li>• genetic purity</li> <li>• cultivar</li> <li>• dead</li> <li>• abnormal</li> <li>• hard seed</li> <li>• germination potential</li> <li>• contamination with foreign matter</li> </ul> </li> <li>• analysis and consequence of test result</li> <li>• segregation strategies/methods and hygiene management</li> <li>• record keeping strategies and importance for traceability</li> <li>• impact of residues including chemical</li> <li>• enterprise biosecurity policies and procedures.</li> </ul>	

### Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated on a broadacre farm or seed handling/processing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - delivery vehicle with seed or grain
  - use of tools for sampling grains/seeds
  - use of seed and grain test equipment
  - use of personal protective equipment
- specifications:
  - use of workplace policies, procedures and delivery documents and forms
  - use of manufacturer operating instructions for specific equipment, machinery
  - use of workplace specifications for seed/grain quality standards
- relationships:
  - client/delivery person.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

### Links

Companion Volumes, including Implementation Guides, are available at VETNet:  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>