



Australian Government

Assessment Requirements for AHCSDT308 Perform tests for quality on seeds

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has performed the following tests on seeds:

- seed purity
- germination
- fluorescence
- moisture
- 'Determination of Other Seeds by Number' test
- hybrid vigour

There must also be evidence that the individual has:

- verified compliance of seed sample with documentation, including:
 - seed species/variety
 - seed condition as submitted
 - seed condition suitable for testing
- prepared and stored samples to maintain quality and condition
- selected, prepared and used testing equipment and materials to conduct tests
- selected, and prepared replicates from working samples for testing
- conducted seed tests, examined tested seed, assessed and calculated test results
- maintained accurate labelling and records at each stage of the testing process suitable for traceability according to industry and workplace standards
- cleaned test equipment, laboratory and disposed of waste according to biosecurity and workplace procedures.

Knowledge Evidence

- 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:
- industry and enterprise standard operating procedures (SOPs) for seed tests, including:

- seed purity
- germination
- fluorescence test on seeds
- moisture
- ‘Determination of Other Seeds by Number’ test
- hybrid vigour
- testing equipment, setup, calibration and operation for the different seed tests
- work health, safety and environment requirements
- seed biology and relation to seed quality, condition and seed tests
- the role of the International Seed Testing Association (ISTA) and the ISTA Rules for Seed Testing
- preparing statistically representative replicates by weight or number of seed for testing
- seed sampling methods, including:
 - hand samples
 - mechanical samples
 - authorised sampler and seed certification
- federal and state agencies overseeing seed movement in Australia and sampling and testing standards, including:
 - Australian Quarantine and Inspection Service (AQIS)
 - Organisation for Economic Co-operation and Development (OECD)
 - Association of Official Seed Certifying Agencies (AOSCA)
 - other certification agencies
- assessing seed test results against industry standards and reporting results
- recordkeeping and documentation for traceability and reporting.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in seed testing laboratory or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - seeds of crops or pasture plants
 - tools and equipment to perform all the tests specified in the Performance Evidence
 - personal protective equipment
- specifications:
 - sampled seed documentation
 - workplace policies, procedures, processes and forms for seed testing
 - manufacturer operating instructions for seed sampling and testing equipment
 - specific safety data sheets for reagents used in seed testing

- workplace instructions and industry specifications for seed testing and assessment
- specific seed testing and certification regulations and industry practice
- relationships:
 - supplier of seed for testing
 - supervisor(s)
- timeframes:
 - according to seed testing times specified testing procedures.

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>