



Australian Government

AHCSDT306 Perform a seed germination test

Release: 1

AHCSDT306 Perform a seed germination test

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to performing germination tests on a seed sample under laboratory conditions. It applies to seed analysts working within enterprise requirements and procedures.

It applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Seed testing (SDT)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Interpret and schedule test requirements	1.1 Identify seeds to be germinated, test methods and equipment 1.2 Recognise hazards and enterprise control measures associated with the sample, seed pre-treatment, test methods, reagents and/or equipment 1.3 Plan work sequences
2. Prepare materials for test	2.1 Draw prescribed number of replicates 2.2 Select and prepare growing media

Element	Performance criteria
	2.3 Pre-treat seed to break physiological dormancy where necessary 2.4 Check water quality and pH is within required tolerances 2.5 Check and prepare apparatus and equipment for germinating seeds
3. Plant and maintain seeds	3.1 Plant seed on or into selected media 3.2 Monitor temperature and light conditions of germination apparatus in accordance with test procedures
4. Evaluate test results	4.1 Categorise seedlings and count as normal or abnormal 4.2 Assess un-germinated seed as hard, fresh or dead 4.3 Assess other determinations for un-germinated seed if required 4.4 Record and report results
5. Maintain a safe work environment	5.1 Use safe work practices and personal protective equipment (PPE) 5.2 Minimise wastes and environmental impacts 5.3 Collect and dispose of laboratory and hazardous waste 5.4 Clean and store equipment and reagents

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCSDT306A Perform a seed germination test.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCSDT306 Perform a seed germination test

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- Prepare for seed germination testing
- assess seed germination
- perform germination tests on a seed sample under laboratory conditions
- prepare growing media
- record and report test results

Knowledge Evidence

The candidate must demonstrate knowledge of:

- assessment of germination and determining need for retesting
- calculations, tolerances and rounding results
- enterprise and/or legal traceability requirements
- enterprise standard operating procedures (SOPs)
- relevant health, safety and environment requirements
- seed biology
- the role of the International Seed Testing Association (ISTA) and the ISTA Rules for Seed Testing

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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