



Australian Government

Department of Education, Employment and Workplace Relations

AHCSDT403A Perform an Anguina test on annual ryegrass seed

Release 1

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Modification History

Release	TP Version	Comments
1	AHC10v4	Initial release

Unit Descriptor

This Unit covers testing seed of annual ryegrass for the presence of Nematode Gall (*Anguina tenuis*).

Application of the Unit

This Unit applies to senior seed analysts working within enterprise guidelines. In general, they oversee the preparation of samples for testing; conduct and supervise specified tests in accordance with enterprise requirements; interpret and report results; maintain record-keeping systems; and have responsibility for overall laboratory operations, the supervision of staff, and implementation of quality assurance procedures.

Licensing/Regulatory Information

Not applicable.

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

- | | |
|---------------------------------------|---|
| 1. Prepare for <i>Anguina</i> testing | 1.1 Test request is reviewed to identify samples to be tested, required test methods, equipment, and staff to be involved in the test.
1.2 Equipment and working space are cleaned and calibrated.
1.3 The working sample or sub-samples are prepared using mixing and dividing processes.
1.4 Sample details are correctly recorded on worksheets and sample packets. |
| 2. Inspect seed samples | 2.1 A prescribed sample of ryegrass seed is prepared and inspected on a diaphanoscope for the presence of galls .
2.2 Any galls present, are separated into yellow and black galls, counted and reported separately.
2.3 If galls are not present, then further samples of six grams (6gms) are inspected to a total of sixty grams (60gms) of seed. |
| 3. Examine galls | 3.1 Galls are soaked in water for prescribed period.
3.2 Galls are dissected and examined under a microscope for the presence of nematodes.
3.3 The presence of nematodes is recorded. |
| 4. Report results | 4.1 Testing procedures carried out by analysts are reviewed.
4.2 Where no galls are found on the sixty grams (60gms) of seed, a report of no galls found is issued.
4.3 Where galls have been detected containing nematodes, these are reported as number of galls per sample weight. |

Required Skills and Knowledge

This section describes the skills and knowledge required for this Unit.

Required skills include:

Ability to:

- plan work sequences
- inspect seed using a diaphanoscope
- dissect galls and using a microscope
- identify nematodes
- record and reporting of results of tests
- follow enterprise guidelines and standard operating procedures.

Required knowledge includes:

Knowledge of:

- seed biology
- basic identification of nematodes
- recording and reporting protocols
- enterprise standard operating procedures (SOPs)
- relevant health, safety and environment requirements.

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	Evidence of the ability to: • plan and delegate testing tasks • inspect seed samples using a diaphanoscope • identify galls on ryegrass seed • use a microscope to detect nematodes.
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 together with core Units and other Units of Competency relevant to the function or work role.
Guidance information for assessment	To ensure consistency of 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>Galls</i> may include:	black and yellow galls.

Unit Sector(s)

Seed Testing