

## Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

<b>AHCSPO305</b>	<b>Operate seed treatment machinery</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to apply a range of treatments or modifications to seed using seed treatment machinery and equipment such as coating machinery and chemical treatment machinery.</p> <p>The unit applies to individuals who take responsibility for 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.</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>	Seed Processing (SPO)

**Commented [RB1]:** This unit is a level 3 unit due to the complexity of calculations required

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. Select and prepare seed treatment machinery and equipment for use	1.1 Select and prepare machinery and equipment to job requirements and confirm against work plan 1.2 Complete routine pre-operational checks of the machine according to manufacturer specifications and workplace requirements 1.3 Recognise work health and safety hazards in the workplace and assess and minimise risks
2. Operate seed treatment machinery and equipment	2.1 Operate machinery and equipment in a safe and controlled manner and monitor for performance and efficiency 2.2 Anticipate risks to self, others and the environment and implement mitigation strategies 2.3 Select, use, maintain and store suitable personal protective equipment (PPE) 2.4 Report environmental implications associated with machinery operation
3. Complete and report on seed treatment machinery and equipment operation	3.1 Complete shut-down procedures to manufacturer's specifications and enterprise requirements 3.2 Complete and maintain seed treatment machinery and equipment operational records 3.3 Report malfunctions, faults and observation of irregular performance of seed treatment machinery and equipment 3.4 Clean, secure and store seed treatment machinery and equipment

Foundation Skills	
<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>	
Skill	Description
Reading	<ul style="list-style-type: none"> <li>Interpret work plans, manufacturer specifications and operator instruction for using a screen cleaner for seed</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Use industry language and concepts, and tone and pace appropriate for reporting to supervisor</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Calculate volumes and ratios relevant to the preparation of treatments for seed and the calibration of equipment for application of treatments</li> </ul>

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Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSPO305 Operate seed treatment machinery Release 2	AHCSPO305 Operate seed treatment machinery Release 1	Minor changes to Application, and 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>	

TITLE	Assessment requirements for AHCSP0305 Operate seed treatment machinery
<p><b>Performance Evidence</b></p> <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 on at least one occasion operated an gravity table for a seed processing operation and has:</p> <ul style="list-style-type: none"> <li>• set up and prepared seed treatment machinery</li> <li>• calculated, calibrated and measured dose rates</li> <li>• formulated a chemical mix to achieve the best treatment</li> <li>• operated seed treatment machinery and equipment</li> <li>• completed and reported on seed treatment machinery and equipment operation.</li> </ul>	
<p><b>Knowledge Evidence</b></p> <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>• principles and practices for operating seed treatment machinery <ul style="list-style-type: none"> <li>• basics of programmable logic controller/treatment control systems and electrical process</li> <li>• procedures for drying, scalping and aspiration of treated seed</li> <li>• the expectations and limitations of different types of seed coating machines</li> <li>• the interaction of biological components and their effect on other chemicals, powders, polymers and heat</li> <li>• the use and differences in biological components in seed coatings</li> <li>• types of seed treatment machinery and equipment</li> </ul> </li> <li>• seed treatments their purpose and application, including: <ul style="list-style-type: none"> <li>• chemical types and classes</li> <li>• difference between coating and pelleting which includes &lt;5% weight gain film coating (insecticide/fungicide) or &gt;5% weight gain is pelleting</li> <li>• disposal of waste chemical</li> <li>• hazards of chemicals</li> <li>• labelling requirements associated with coated seed</li> <li>• methods of applying chemical and basic recipe formula</li> <li>• methods of applying powders</li> </ul> </li> <li>• workplace health and safety considerations in the seed treatment process, including personal protective equipment (PPE) <ul style="list-style-type: none"> <li>• rules and regulations for storage, transportation and bunding.</li> </ul> </li> </ul>	
<p><b>Assessment Conditions</b></p> <p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions: <ul style="list-style-type: none"> <li>• skills must be demonstrated in a seed processing plant, farm or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• seed treatment machinery</li> <li>• seed treatment consumables, materials and chemicals</li> <li>• tools and equipment for adjustments</li> <li>• use of specific items of personal protective equipment</li> </ul> </li> <li>• specifications: <ul style="list-style-type: none"> <li>• use of workplace procedures</li> <li>• use of manufacturer operating instructions for equipment</li> <li>• use of workplace instructions and specifications</li> <li>• use of safety data sheets (SDS)</li> </ul> </li> <li>• relationships: <ul style="list-style-type: none"> <li>• supervisor</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	

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