

Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

AHCWRK505	Manage trial and research material
Application	<p>This unit of competency describes the skills and knowledge required to identify scope and extent of trial and research work, oversee management of trial and research material and prepare reports.</p> <p>The unit applies to individuals who apply specialised skills and knowledge to the management of trial and research material, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information and analyse, design and communicate solutions to sometimes complex problems.</p> <p>All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Work (WRK)

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. Identify scope and extent of work	1.1 Plan the trial or research to meet research objectives 1.2 Assess data relevant to managing trial or research materials according to research parameters 1.3 Identify and assess workplace health and safety hazards and risks relating to research 1.4 Develop and cost workplace health and safety controls and document in the survey design 1.5 Identify and cost tools, equipment and machinery required for managing trial 1.6 Identify and cost research materials, products and inputs and confirm availability with suppliers, contractors and appropriate personnel 1.7 Determine research design according to the trial or research plan
2. Oversee management of trial or research materials	2.1 Prepare, maintain and monitor trial or research in line with research parameters 2.2 Conduct field work to verify and collect data as required by the trial or research design and research parameters 2.3 Monitor work activities for accuracy, validity and compliance to the parameters of the trial or research design 2.4 Undertake staged data collection as required by the trial or research design, scheduling and access requirements 2.5 Record monitoring activities and data
3. Prepare reports on completed work	3.1 Record collected data 3.2 Analyse data statistically to determine significance of research results 3.3 Accept or reject hypothesis based on data collected 3.4 Produce a report following appropriate report writing techniques to accurately convey results

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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"> Identify and interpret information regarding the research hypothesis and parameters Identify and interpret research objectives
Writing	<ul style="list-style-type: none"> Develop a research plan and survey Develop a research design and research report
Oral communication	<ul style="list-style-type: none"> Initiate discussions with suppliers, contractors and appropriate personnel, using clear language to confirm availability of research tools, equipment, machinery and material
Numeracy	<ul style="list-style-type: none"> Calculate research costs Access, record and analyse research data for input to research report

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCWRK505 Manage trial and research material Release 2	AHCWRK505 Manage trial and research material Release 1	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

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

TITLE	Assessment requirements for AHCWRK505 Manage trial and research material
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has managed trial and research material on at least one occasion and has:</p> <ul style="list-style-type: none"> • defined the purpose of the trial or research • identified the scope and extent of work • calculated and documented research costs • collated data • overseen the management of trial and research materials • complied with workplace requirements • drawn conclusions and applied findings of trials and research • used industry standard terminology. 	
Knowledge Evidence	
<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"> • scheduling and programming work within timelines • ecological principles and terminology • data collection, reporting and analysis techniques • research procedures and best practice techniques • research methodologies, planning and design • workplace team management guidelines • relevant workplace health and safety legislation, regulations and workplace procedures. 	
Assessment Conditions	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • a workplace setting or an environment that accurately represent workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • research hypothesis, parameters and objectives • specifications: <ul style="list-style-type: none"> • workplace health and safety legislation, regulations and workplace procedures applicable to managing trial and research material • relationships: <ul style="list-style-type: none"> • suppliers, contractors and appropriate personnel • timeframes: <ul style="list-style-type: none"> • according to the job requirements. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72