



CLAYDON BROTHERS AHCSOL203 Assist With Soil Or Growing Media Sampling And Testing User Guide

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Student Assessment Book AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)

Figure 1-

https://wle.cgiar.org/sites/default/files/styles/media_embed/public/images/stories/soil%20research.jpg?itok=fzjdK8NW

Claydon Brothers

Document Control

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Introduction

This unit of competency describes the skills and knowledge required to assist with the sampling and testing of soil or growing media, including collecting soil or media samples, performing basic tests on soil or media samples, and completing sampling and testing activities.

The unit applies to individuals who assist with soil or growing media sampling and testing under general supervision with limited autonomy or accountability.

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

Pre-requisite Unit

Nil

Learning Outcomes

1. Collect soil or media samples for testing
2. Perform basic tests on soil or media sample
3. Complete sampling and testing activities

Assessment types

In this unit you will complete the following assessments:

1. **Assessment Task 1:** Written Assessment
2. **Assessment Task 2:** Practical Demonstration Collecting and Testing Soil

Assessment Task 1: Written Assessment

Instructions for this task:

Answer all questions in the space provided.

You will be required to have a good understanding of the following areas:

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:

- environmental impacts associated with testing soil or growing media
- industry and workplace biosecurity procedures applicable to soil and growing media testing
- workplace requirements applicable to health and safety in the workplace for testing soil or growing media
 - principles and practices for recognising soils or growing media properties, including:
 - basic soil or media tests
 - basic soil or media chemical properties
 - basic soil or media physical properties
 - soil or media plant relationship
 - soil or media sampling techniques.

Benchmark

You must get all questions 100% correct and all documentation requested in this assessment is submitted to gain a satisfactory in this task.

Resources required for this assessment task:

You need to have access to the following:

- Pen and Paper
- This Booklet
- Access to learning materials
- Access to the internet
- Access to a PC and word processing software

Location: Classroom/Computing Lab

Submission

Submit your responses by the due date and in accordance with the general instructions at the beginning of this unit of competency. Attach the Assessment Agreement and the Assessment cover sheet for this assessment task.

Questions to respond to.

Q11 What information should be contained on the labels?

Q12 What would you determine as a course of action if the pH of soil was acidic?

Q13 What are the physical properties of soil that can affect a plant's ability to grow?

Evidence to submit

Did you submit the following evidence?		Yes	No
1	Answers to Questions 1-13 in this task	<input type="checkbox"/>	<input type="checkbox"/>
2	Answers correctly sourced and referenced if applicable	<input type="checkbox"/>	<input type="checkbox"/>
3	Handwriting was neat and legible, or word processed	<input type="checkbox"/>	<input type="checkbox"/>
4	Cover sheet attached	<input type="checkbox"/>	<input type="checkbox"/>
5	Assessment Agreement attached	<input type="checkbox"/>	<input type="checkbox"/>

Assessment Cover Sheet

Please complete this form for each assessment task and attach to each of your assessment responses/evidence when you submit these for marking to your Assessor. Your work may not be returned to you we are required to keep it in your file for auditing purposes. Please ensure you have kept a copy.

Student Name		USI	
Unit of Competency	AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)		
Assessor's Name		Date Submitted	
Assessment Task Number	Name of Assessment Task	Satisfactory	Not Yet Satisfactory
Assessment Task 2	Soil Sampling and Testing Project	<input type="checkbox"/>	<input type="checkbox"/>
The following questions are to be completed by the assessor:			
Is the Student ready for assessment?		Yes	No
Has the assessment process been explained?		Yes	No
Does the Student understand which evidence is to be collected and how?		Yes	No
Have the Student's rights and the appeal system been fully explained?		Yes	No
Have you discussed any special needs to be considered during assessment?		No	Yes
Student's declaration:· The material I have submitted is my own work.· None of this work has been completed by any other person and I have not cheated or plagiarised the work or colluded with any other student/s.· I have kept a copy of all relevant notes and reference material that I used in the production of my work.· I have given references for all sources of information that are not my own, including the words, ideas, and images of others.			

Assessment Task 2: Soil Collection and Testing Project

Instructions for this task:

You are to Collect 10 samples and test the ten samples to determine the quality of the soil you have sampled. Produce a report for the results of the tests. Ask your Assessor to clarify items you are unsure about prior to commencing. Complete all tasks as stated and submit all work for assessment by the due date.

You will be required to have a good understanding of the following areas:

- selected appropriate tools and equipment
- selected and wore/used PPE
- labelled all samples
- selected and used soil and growing media sampling tools and material

- minimised environmental impacts associated with testing soil and media
- followed industry and workplace biosecurity procedures
- applied workplace health and safety requirements
- collected and described soil and media samples
- performed basic descriptive tests for soil or media properties
- assisted with the use of simple soil testing equipment for testing pH and salinity
- removed and disposed of waste material
- recorded soil and media test results and reported unserviceable tools and materials.

Benchmark

You must complete all tasks in full and meet the criteria of this unit to be deemed satisfactory in this task. You must complete all activities in full and you must answer all questions in full. You must demonstrate that you are able to collect samples and test those samples to determine quality of the soil and how to improve the soil.

All criteria listed in the Assessor's Checklist must be met to the industry standards specified in this unit.

Location: Field to collect samples of soils; Lab to test samples of soils

Resources:

- The Learning Guide
- Internet and PC
- Soil testing kit
- Tools, equipment and materials suited to collation of samples (refer to Learning Guide for the list).

Student's Name				
Name of Assessor				
Unit of Competency		AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)		
Assessment Task #		Assessment Task 2 – Part 2 Testing of Samples		
EL2.4	8	Suggest changes, if any are necessary, which could be made to soil structure and chemical composition to make the soil more suitable for the desired crop.		
EL2.4	9	Accurate identification of soil characteristics and chemical composition that need modification for the particular crop		
EL2.4	10	Feasible suggestions for remedial measures		
EL3.1; PE8	11	Remove and dispose of waste material		
EL3.4 PE9	12	Record soil and media test results		
Feedback to Student				
Assessor's Signature:				
Date:				

Evidence to submit

Did you submit the following evidence?		Yes	No
1	Ten (10) soil analysis forms	<input type="checkbox"/>	<input type="checkbox"/>
2	Ten (10) Test result forms	<input type="checkbox"/>	<input type="checkbox"/>
3	Soil analysis of three sites	<input type="checkbox"/>	<input type="checkbox"/>
4	Assessor checklist 1 -Observation	<input type="checkbox"/>	<input type="checkbox"/>
5	Assessor checklist 2 – Observation	<input type="checkbox"/>	<input type="checkbox"/>
6	Cover sheet attached	<input type="checkbox"/>	<input type="checkbox"/>

Record of Assessment Outcomes

This section records all the evidence used to form the final assessment decision. Please document all types of evidence used in this assessment.

Student Name			
Unit of Competency	AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)		
Assessment Requirements	Task Outcomes		
	Satisfactory (S)	Not Satisfactory (NS)	Resubmit
Assessment Task 1: Written Assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assessment Task 2: Practical Demonstration Collecting and Testing soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Assessment Outcome			
<input type="checkbox"/> Competent	<input type="checkbox"/> Not Yet Competent	<input type="checkbox"/> Resubmit	
If a resubmission is required what additional evidence or corrections are required?			
Assessor Name:			
Assessors Signature:		Date	

Appendix 1 – Student Survey

At the end of each unit, we would like to collect feedback, so we can identify areas for improvement in our materials. Circle or highlight the response you wish to use. We would appreciate your assistance by providing your constructive feedback.

Please complete the survey and return it to Claydon Brothers Pty Ltd by email: sales@claydonbrothers.com.au.



Thank you for your time.

Qualification code and name					
Unit code and name	AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)				
Date:					
Please read the statements below and circle the most appropriate response:	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1. The amount of time for the assessment was appropriate.	1	2	3	4	5
2. The training and assessment materials for this unit were suitable to my learning style and easy to use.	1	2	3	4	5
3. The content was interesting and engaging.	1	2	3	4	5
4. The topics were presented in a logical sequence.	1	2	3	4	5
5. The assessment tasks were clear; and it was easy for me to understand what was required of me.	1	2	3	4	5
6. What did you find most interesting or useful about this unit?					
7. What, if anything, did you find the least useful about the unit?					
8. Please make any constructive suggestions that would improve these materials for future students?					



Thank you for providing your valuable feedback.



Documents / Resources

 <p>Student Assessment Book AHCSOL203 – Assist with soil or growing media sampling and testing (Release 1)</p>  <p>Claydon Brothers</p>	<p>CLAYDON BROTHERS AHCSOL203 Assist With Soil Or Growing Media Sampling And Testing [pdf] User Guide</p> <p>AHCSOL203 Assist With Soil Or Growing Media Sampling And Testing, AHCSOL203, Assist With Soil Or Growing Media Sampling And Testing, Soil Or Growing Media Sampling And Testing, Growing Media Sampling And Testing, Media Sampling And Testing, Sampling And Testing, Testing</p>
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References

-  [Home](#)
-  [Water, Land and Ecosystems |](#)
- [User Manual](#)

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