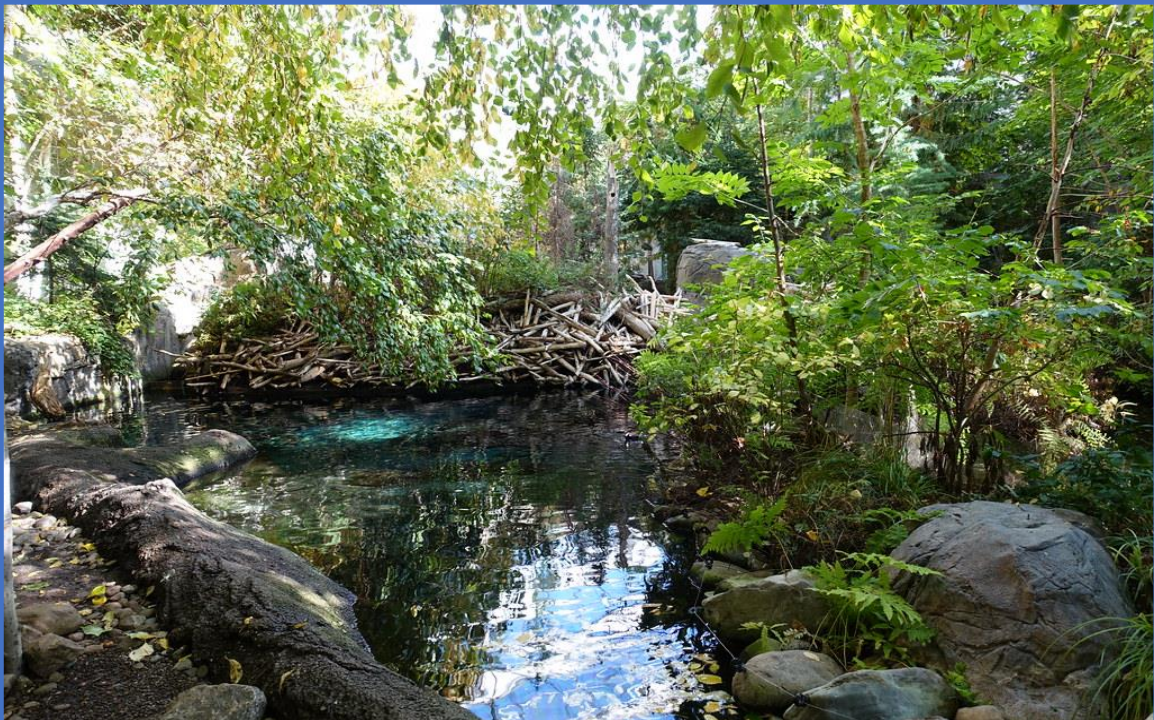




Student Assessment Workbook

AHCECR311 Implement ecosystem reconstruction works Release 1



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Claydon Brothers

Document Control

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Introduction

This unit of competency describes the specialist skills and knowledge required to implement terrestrial or aquatic ecosystem reconstruction works on an ecological restoration site following a plan or brief.

The unit applies to individuals engaged in conservation and land and water management programs and who work under general supervision, exercising limited autonomy with some accountability for their own work. They undertake defined activities and work in a structured context to current industry standards.

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

Pre-requisite Unit

Nil.

Learning Outcomes

1. Determine scope of ecosystem reconstruction works
2. Prepare for ecosystem reconstruction works
3. Prepare ecosystem reconstruction site
4. Undertake ecosystem reconstruction works
5. Maintain ecosystem reconstruction site

Assessments Overview

This Assessment Booklet includes all your tasks for the assessment in this unit of competency and you must complete all assessment tasks.

Assessment Task	About this Task
Assessment Task 1: Written Questions	You must correctly answer all questions to show that you understand the knowledge required for this unit.
Assessment Task 2: Product Part A	You will produce a management restoration plan for two sites
Assessment Task 2: Practical Project Part B-D	You will demonstrate your performance in the skills listed in the Assessor Checklist by completing the tasks presented in each part

How to submit your Assessments

When you have completed each assessment task, submit all evidence listed to your Assessor either in hardcopy, electronically by email or uploading to the RTO's Assessment Portal or as otherwise instructed by your Assessor.

Make sure you keep a copy of all submitted work as your Assessor will not return these to you. It is your responsibility to keep this copy until you have completed the course.

Assessment Cover Sheet

Each Assessment Task has a cover sheet that you need to complete and sign the declaration. Submit this with your evidence for each Assessment Task. Ensure you answer all questions and complete all details prior to submitting this form.

Feedback from your Assessor

Your Assessor will provide feedback on the Record of Outcome for each Assessment Task. This form will be provided to you and you must return this form to the Assessor for storage. Sign and Date this form. Provide any comments that you wish your Assessor to know.

Resubmission of any Assessment Task

If you get something wrong and have to resubmit a part of your evidence or re-do a task again, the Assessor will discuss this with you and provide a deadline for you to resubmit the evidence by.

Deadlines for submission of evidence

Your Assessor will notify you of the last possible date of submission of evidence. There are no extensions provided unless there are extenuating circumstances. You would need to apply for an extension with your Assessor stating the grounds for the request. Do not assume an extension will be approved. It rarely is.

Purpose of the Assessments

All assessments have been created for you to be able to demonstrate your competency levels in each area. When you are graded Satisfactory in each Assessment Task, this leads to a competent result in the entire unit.

Assessment decisions

Your Assessor will mark each assessment task against the performance and knowledge criteria in the unit. Each aspect of the criteria being tested is listed in the section of the assessment ***"You will be required to have a good understanding of the following areas"***.

Assessment Cover Sheet

Student Name		USI	
Unit of Competency	AHCECR311 Implement ecosystem reconstruction works Release 1		
Assessors Name			
Assessment Task 1	Written Assignment		
Submission Date			
Answer the following questions prior to commencing the Assessment Task		Yes	No
<p>Are you ready to be assessed? I understand the assessment instructions and requirements and consent to being assessed.</p> <p><i>(i.e. you have completed all training and feel confident to undertake the assessment. You know the purpose of the assessment and what resources I can use).</i></p>			
Do you understand your rights in the assessment process?			
Do you understand the appeal system if you are not happy with your outcomes?			
<p>Do you have any special needs or support to be considered during assessment?</p> <p><i>(If yes, advise your Assessor of what support you will need).</i></p>			
<p>Do you understand that you can apply for Recognition of Prior Learning (RPL) instead of completing the assessment?</p> <p><i>(i.e. the reason would be that you already have attained this unit or have the knowledge and skills to be assessed immediately without training).</i></p>			
Do you know what evidence you must submit for this assessment?			
Do you understand the assessment process as explained by your Assessor?			
Student's declaration			
<ul style="list-style-type: none"> • I declare that the evidence I have supplied is my own work. • None of this work has been completed by any other person. • I have not cheated or plagiarised the work or colluded with any other student/s. • I have correctly referenced all resources, reference texts throughout this assessment task. • I understand that if am in breach of this policy that disciplinary action may be taken against me. 			
Student's Signature		Date	

Assessment Task 1: Record of Outcome

Assessment Task #	Name of Assessment Task	Satisfactory	Not Yet Satisfactory
Assessment Task 1	Written Assignment	<input type="checkbox"/>	<input type="checkbox"/>
Assessor Statement	I certify that the student being assessed has the skills, knowledge and abilities as described in the unit of competency and associated assessment requirements. The quality, quantity, currency, and relevance of the assessment evidence enabled me to make a judgement of competency for this student. I have uploaded this student's evidence for the RTO to certify and forwarded results to the Administration for entry into RTO Student Management System on the Record of Outcome Form at the end of the Student Assessment Book.		
Feedback to Student			
I acknowledge the feedback provided by my Assessor. Provide any comments below that you wish your Assessor to know.			
Student's signature		Date	
Assessor's name Please print			
Assessor's Signature		Date	

Assessment Task 1: Written Assessment

Overview of Task

You are to answer all the questions in this task.

What resources do I need to complete this task?

- Access to learning materials
- Access to a computer and the Internet
- Access to word processing software
- Access to Policies and Procedures
- Access to the Resources Folder for documents from the Internet and Templates

Instructions to Students:

- This is an open book test which means you can use your learning materials as a reference.
- You need to answer all questions
- You must answer the questions by writing in the space provided or by word processing your answers. It is recommended that all evidence is word processed wherever possible.
- Note: If you hand write your answers and the Assessor cannot read your handwriting the evidence will be returned to you to word process.
- Your Assessor will advise you if you can email your evidence or if you have to print it out and submit hard copies.
- Submit your evidence on time.
- Your evidence must be authentic (original, references, not plagiarised).

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

- recognition and common names of native flora, fauna and other key biota of specific restoration areas
- ecological principles, including:
- ecological restoration principles, including:
- a range of biological reintroduction techniques
- a range of sector-appropriate tools, equipment and machinery
- concepts and methods for establishment of biota on reconstruction sites
- pests and diseases and the principal control strategies for their prevention and control on reconstruction sites
- safety requirements when handling and using hazardous materials.

Grading

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

Location

The assessment will take place in the classroom, a Computing Lab or as otherwise instructed by the Assessor.

Questions to respond to.

Q4 Research the ecological communities in your local region. List these below.

Q5 Describe the interactions between flora, fauna and other biota and the impact of these on restoration objectives and outcomes.

Q6 Why is biodiversity in an ecological community important?

Q7 What is the role of habitats to reinstating functional ecosystems?

Q8 Describe the connectivity principles for expanding area and effective linkages.

Q9 Describe the substrates in different ecological environments and their preparation, including terrestrial and aquatic environments.

Q10 Explain the physiology of growth of desirable and non-desirable organisms.

Q11 List the ecological restoration principles.

Assessment Cover Sheet

Student Name		USI	
Unit of Competency	AHCECR311 Implement ecosystem reconstruction works Release 1		
Assessors Name			
Assessment Task 2	Practical Project 1		
Submission Date			
Answer the following questions prior to commencing the Assessment Task		Yes	No
Are you ready to be assessed? I understand the assessment instructions and requirements and consent to being assessed. <i>(i.e. you have completed all training and feel confident to undertake the assessment. You know the purpose of the assessment and what resources I can use).</i>			
Do you understand your rights in the assessment process?			
Do you understand the appeal system if you are not happy with your outcomes?			
Do you have any special needs or support to be considered during assessment? <i>(If yes, advise your Assessor of what support you will need).</i>			
Do you understand that you can apply for Recognition of Prior Learning (RPL) instead of completing the assessment? <i>(i.e. the reason would be that you already have attained this unit or have the knowledge and skills to be assessed immediately without training).</i>			
Do you know what evidence you must submit for this assessment?			
Do you understand the assessment process as explained by your Assessor?			
Student's declaration			
<ul style="list-style-type: none"> • I declare that the evidence I have supplied is my own work. • None of this work has been completed by any other person. • I have not cheated or plagiarised the work or colluded with any other student/s. • I have correctly referenced all resources, reference texts throughout this assessment task. • I understand that if am in breach of this policy that disciplinary action may be taken against me. 			
Student's Signature		Date	
Assessment Task #	Name of Assessment Task	Satisfactory	Not Yet Satisfactory

Assessment Task 2	Practical Project	<input type="checkbox"/>	<input type="checkbox"/>
Assessor Statement	I certify that the student being assessed has the skills, knowledge and abilities as described in the unit of competency and associated assessment requirements. The quality, quantity, currency, and relevance of the assessment evidence enabled me to make a judgement of competency for this student. I have uploaded this student's evidence for the RTO to certify and forwarded results to the Administration for entry into RTO Student Management System on the Record of Outcome Form at the end of the Student Assessment Book.		
Feedback to Student			
I acknowledge the feedback provided by my Assessor. Provide any comments below that you wish your Assessor to know.			
Student's signature		Date	
Assessor's name Please print			
Assessor's Signature		Date	

Assessment Task 2: Practical Project 1 and 2

Overview of Task

You are to demonstrate your skills and abilities to implement two terrestrial or aquatic ecosystem reconstruction works on an ecological restoration site following a plan or brief.

What resources do I need to complete this task?

- Project brief
- Access to learning materials
- Access to a computer and the Internet
- Access to word processing software
- Access to workplace policies and procedures for safety, biosecurity and maintenance tasks
- Access to workplace instructions, and natural area reconstruction plan with specifications specific to the site
- Access to legislative requirements for records
- Access to tools, equipment, machinery, consumables and PPE
- Access to the Resources Folder for documents from the Internet and Templates
- Access to two sites to demonstrate skills
- Access to a supervisor

Instructions to Students:

- You must demonstrate your understanding of the issues and procedures related to this task
- You must demonstrate your practical skills to be able to maintain two different ecological sites
- You must take before and after photographs and submit your site assessments and planning documents for two sites.
- Your work for this project will also be observed over the semester by your Assessor
- Your Assessor will advise you if you can email your evidence or if you have to print it out and submit hard copies.
- Submit your evidence on time.
- Your evidence must be authentic (original, references, not plagiarised).

Grading

All supporting documentation requested must be submitted; and demonstrations to the Assessor must meet the criteria specified and to industry standards to gain a satisfactory in this task.

Location

The assessment will take place in the field where students can access two different ecological sites that require maintenance.

Observation Checklist – Part A

Student's Name				
Name of Assessor				
Unit of Competency		AHCECR311 Implement ecosystem reconstruction works Release 1		
Procedure		Product – Management Plan		
Instructions for students				
Students are to create a management plan for the restoration and record all planning and scope of the work.				
Instructions for the Assessor				
You are to record on this sheet whether the Candidate met the criteria below from the demonstration they completed for both sites. If they did, tick Yes. If not, tick No and make a comment in the feedback section as to why it doesn't so they can resubmit the required work.				
Criteria	Task #	Did the student meet the requirements below?	Yes/No	Comments
Site 1:				
Site 2:				
Part A: Determine the scope of the ecosystem reconstruction works				
1	Students will develop a restoration plan (refer to samples in your Resource folder) for the two sites that you are restoring.			
2	Students will create a sketch of each site showing:			
3	Boundaries between ecosystem reconstruction area and assisted regeneration area according to project brief			
4	Identify and locate all sensitive species and document this on your map			
5	Identify adjoining properties			
6	Identify proposed access into and through site			
7	Determine any habitat corridors or linkages with adjoining properties or potential for these			
8	Identify any threats to the works and document these in your report to your supervisor			

Observation Checklist – Part B

Student's Name				
Name of Assessor				
Unit of Competency	AHCECR311 Implement ecosystem reconstruction works Release 1			
Procedure	Observation in the field preparing for the works			
Instructions for students				
Demonstration: Students are to prepare all equipment and materials for the reconstruction works and prepare the site for the works to commence.				
Instructions for the Assessor				
You are to record on this sheet whether the Candidate met the criteria below from the demonstration they completed for both sites. If they did, tick Yes. If not, tick No and make a comment in the feedback section as to why it doesn't so they can resubmit the required work.				
Criteria	Task #	Did the student meet the requirements below?	Yes/No	Comments
Site 1:				
Site 2:				
Part B: Prepare for the reconstruction works and prepare the site				
1	Select, check and prepare the tools, equipment and materials that you will need			
2	Obtain, inspect for quality and store biological materials for reconstruction works for when you need these and discard defective materials			
3	Determine if you need any permits or permissions for the work and obtain these as required			
4	You will have a small team to help in the reconstruction works so you need to prepare schedules of work for them and co-ordinate the team on the site			
5	Conduct a risk assessment of the site by identifying hazards, assessing risks and determining methods of control according to workplace health and safety procedures, and environmental and biosecurity procedures			

Student's Name			
Name of Assessor			
Unit of Competency		AHCECR311 Implement ecosystem reconstruction works Release 1	
Procedure		Observation in the field preparing for the works	
6	Select and apply treatments according to environmental and biosecurity risk controls		
7	Implement the control measures to eliminate hazards and undertake treatment of any undesirable organisms and contamination		
8	Undertake site and substrate pre-treatments		
9	Install protective measures according to identified environmental risk controls		
10	Pre-treat plants, seeds or other propagules according to project brief		
Feedback to Student			
Assessor's Signature:			
Date:			

Observation Checklist – Part C

Student's Name				
Name of Assessor				
Unit of Competency		AHCECR311 Implement ecosystem reconstruction works Release 1		
Procedure		Observation in the field undertaking the restoration works		
Instructions for students				
Demonstration: Students are to undertake the restoration works on two sites as per the criteria below.				
Instructions for the Assessor				
You are to record on this sheet whether the Candidate met the criteria below from the demonstration they completed for both sites. If they did, tick Yes. If not, tick No and make a comment in the feedback section as to why it doesn't so they can resubmit the required work.				
Criteria	Task #	Did the student meet the requirements below?	Yes/No	Comments
Site 1:				
Site 2:				
Part C: Undertake the ecosystem reconstruction works				
1	Select, check and use personal protective equipment correctly			
2	Follow all workplace health and safety, biosecurity and environmentally sustainable work practices and restoration principles.			
3	Reintroduce biota according to current industry standards and project brief using the most appropriate method for the species e.g. for plants - replanting nursery stock, direct seeding or introduced propagules, or translocation.			
4	Apply techniques for protecting, securing or anchoring reintroduced biota			
5	Protect the restored area with guards, barriers or other techniques			
6	Maintain records and reports according to workplace procedures			

Observation Checklist – Part D

Student's Name				
Name of Assessor				
Unit of Competency	AHCECR311 Implement ecosystem reconstruction works Release 1			
Procedure	Observation in the field undertaking the restoration works			
Instructions for students				
Demonstration: Students are to undertake the maintenance and monitoring of the restoration works on two sites as per the criteria below.				
Instructions for the Assessor				
You are to record on this sheet whether the Candidate met the criteria below from the demonstration they completed for both sites. If they did, tick Yes. If not, tick No and make a comment in the feedback section as to why it doesn't so they can resubmit the required work.				
Criteria	Task #	Did the student meet the requirements below?	Yes/No	Comments
Site 1:				
Site 2:				
Part D: Maintain the ecosystem reconstruction site				
1	Monitor growth of plants, seeds or other propagules for health and performance by checking growth over a period of time and recording data at each interval			
2	Maintain site to ensure the plant and animals are surviving			
3	Undertake remedial action and protection according to species requirements if they are experiencing difficulty			
4	Clean, maintain and store tools and equipment according to workplace procedures and biosecurity procedures.			
Feedback to Student				

Evidence to submit

Evidence Submitted to Assessor - Tick if submitted (✓)		Submitted
Attach this checklist to your Assessment Cover Sheet and evidence		
1	Management Restoration Plan for two sites	<input type="checkbox"/>
2	Photographs before and after the restoration activities for both sites	<input type="checkbox"/>
3	Risk Management Plan for each site	<input type="checkbox"/>
4	Assessor's Checklist Part A	<input type="checkbox"/>
5	Assessor's Observation Checklist Part B	<input type="checkbox"/>
6	Assessor's Observation Checklist Part C	<input type="checkbox"/>
7	Assessor's Observation Checklist Part D	<input type="checkbox"/>
8	Assessment Cover Sheet and Evidence List	<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	AHCECR311 Implement ecosystem reconstruction works 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: Product – Management Plan - Part A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assessment Task 2: Practical Projects- Part B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assessment Task 2: Practical Projects - Part C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assessment Task 2: Practical Projects – Part D	<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	AHCECR311 Implement ecosystem reconstruction works 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.