



Australian Government

Department of Education, Employment and Workplace Relations

AHCNAR505A Plan river restoration works

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers planning of river restoration works and defines the standard required to: restoration strategies are checked for compliance and discussed with client; develop erosion and sediment control measures; follow industry guidelines to establish fauna habitat and vegetation species; document the strategy and submit to the relevant consent authority; prepare a detailed works plan.
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Application of the Unit

Application of the unit	This unit applies to restoration and rehabilitation project managers.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Establish client need	1.1. The client expectations is discussed and confirmed. 1.2. Current impacting legislation and policies are explained to the client. 1.3. Possible strategies are discussed with the client and the best option confirmed in writing.
2. Develop the strategy to utilise restoration works	2.1. Property ownership and boundaries are confirmed by checking maps and titles. 2.2. Profiles of river sections are determined from survey and aerial photographs. 2.3. Erosion control measures are developed and are consistent with industry principles and selection criteria. 2.4. Sediment control measures are developed consistent with industry principles and selection criteria. 2.5. Fauna habitats are developed following industry recommendations. 2.6. Vegetation species utilised within restoration project comply with industry guidelines. 2.7. River restoration strategies are established and documented in co-operation with the client and relevant consent authority.
3. Prepare a detailed works plan	3.1. Selection criteria for earthwork structures or measures are checked against industry guidelines. 3.2. Habitat enhancement strategies checked against industry guidelines. 3.3. Plan is prepared according to enterprise guidelines and industry best practice.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- establish requirements of the project
- establish the suitability of a project proposal
- develop erosion and sediment control strategies
- develop a river restoration strategy

REQUIRED SKILLS AND KNOWLEDGE

- design structural works, and prepare a river restoration plan
- prepare a detailed works plan
- use literacy skills to fulfil job roles as required by the organisation. The level of skill may range from reading and understanding documentation to completion of written reports
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record complex workplace measures
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- relevant environmental protection, planning and groundwater legislation
- river processes and restoration techniques
- erosion and sediment control techniques
- planning procedure for erosion and sediment control
- erosion control and design principles
- soils and soil formation
- levels and levelling
- design principles
- earthmoving principles
- restoration principles and techniques
- total catchment issues
- legal requirements - permits
- environmental issues
- biodiversity
- managing peak water flows
- subsurface and surface drainage principles and systems.

Evidence Guide

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	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • restoration strategies are checked for compliance and discussed with client • develop erosion and sediment control measures • follow industry guidelines to establish fauna habitat and vegetation species • document the strategy and submit to the relevant consent authority • prepare a detailed works plan.
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.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Erosion control measures may include:	• embankment stabilising structures and techniques.
Sediment control measures may include:	• coffer dams • site management • sediment fences • sediment traps • sediment curtains • sediment retention basins.

Unit Sector(s)

Unit sector	Natural area restoration
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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