



Australian Government

Department of Education, Employment and Workplace Relations

RTD2202A Conduct erosion and sediment control activities

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This competency standard covers the process of carrying out erosion and sediment control activities in both urban and rural environments. It requires the ability to identify erosion and sediment control structures, carry out routine work in compliance with control measures, undertake work in accordance to legislation and community expectation and project specifications. Conducting erosion and sediment control activities requires knowledge of basic issues related to erosion and sedimentation, role of vegetation, characteristics of soils with an emphasis on erosion prone soils, relevant legislation and local environmental parameters.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Align work site practices with erosion and sediment control principles	1.1 Erosion and sedimentation legislation is adhered to at the work site as a part of contract works. 1.2 Procedures relating to erosion and sediment control are applied on the work site align with industry standards.
2 Implement erosion and sediment control principles in the workplace	2.1 Breaches of erosion and sediment control legislation are noted and reported. 2.2 Industry practices for erosion and sediment control is applied in the work place.

Required Skills and Knowledge

Not applicable.

Evidence Guide

What evidence is required to demonstrate competence for this standard as a whole?

Competence in conducting erosion and sediment control activities on development sites requires evidence that erosion and sediment control work has been properly completed according to community and agency guidelines and best practice procedures. The skills and knowledge required to conduct erosion and sediment control activities on development sites must be **transferable** to a range of work environments and contexts. For example, this could include different forms of erosion and sediment control, locations and soil types.

What specific knowledge is needed to achieve the performance criteria?

Knowledge and understanding are essential to apply this standard in the workplace, to transfer the skills to other contexts and to deal with unplanned events. The knowledge requirements for this unit are listed below:

Relevant legislation.

Cost to the community of erosion and sedimentation.

Loss of habitat.

Water quality.

Loss of production/asset/amenity.

Re-occurring maintenance/repair/monitoring.

Agents/processes of erosion and sedimentation.

Basic catchments issues.

Role of vegetation.

Characteristics of soils with an emphasis on erodible soils.

What specific skills are needed to achieve the performance criteria?

To achieve the performance criteria, some complementary skills are required. These skills include the ability to:

Identify erosion and sediment control structures/measures/practices.

Carry out routine work with control measures and structures.

Undertake activities in accordance with legislation/community expectation and project specifications.

What processes should be applied to this competency standard?

There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the **key competencies**, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where 0 = not required, 1 = perform the process, 2 = perform and administer the process and 3 = perform, administer and design the process.

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| 1. How can communication of ideas and information (1) be applied? | By discussing verbally erosion and sediment control activities on development sites with supervisors. |
| 2. How can information be collected, analysed and organised (1) ? | Conducting erosion and sediment control activities on development sites will require basic planning and construction information to be gathered and organised accordingly. |
| 3. How are activities planned and organised (2) ? | Conducting erosion and sediment control activities on development sites requires some planning and organising of construction resources. |
| 4. How can team work (2) be applied? | Conducting erosion and sediment control activities on development sites will require coordination of self and others in a team. |
| 5. How can the use of mathematical ideas and techniques (1) be applied? | Basic mathematical techniques relating to measurement and timing could be applied. |
| 6. How can problem-solving skills (2) be applied? | While conducting erosion and sediment control activities on development sites, technical and organisational problems may arise requiring innovative solutions. |
| 7. How can the use of technology (1) be applied? | Construction technology will be required. |

Are there other competency standards that could be assessed with this one?

This competency standard could be assessed on its own or in combination with other competencies relevant to the job function.

For information about **assessing this competency standard for consistent performance** and **where and how it may be assessed**, refer to the Assessment Guidelines for this Training Package.

Range Statement

Range of Variables

The Range of Variables defines the different contexts, work environments and parameters governing the performance of this competency standard. The variables chosen in training and assessment will need to reflect local industry and regional contexts

What are **erosion and sediment control** activities?

Land shaping including batter stabilisation, banks, channels, and sediment basins, traps, filters and fences. Also includes revegetation.

What are **erosion and sediment control** structures?

Grade stabilising structures, outlet protection structures, stormwater detention measures, dust control, and rural roads and tracks.

What **industry people** may be included?

Earthmoving machine operators, cartage contractors, timber harvest machine operators, product suppliers, labourers, trade personnel, fuel suppliers, engineers, landholders, landcare groups, fitters, contractor support staff, project supervisors, forest and plantation workers, supervisors, surveyors and foresters.

For more information on contexts, environment and variables for training and assessment, refer to the Sector Booklet.

Unit Sector(s)

Not applicable.