



Australian Government

Department of Education, Employment and Workplace Relations

RTD3034A Implement revegetation works

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This competency standard covers the process of implementing revegetation works. It requires the ability to prepare equipment and materials for revegetation, prepare a planting site, undertake revegetation works, and maintain a revegetated site. Implementing revegetation works requires knowledge of factors affecting the timing and method of planting, identification of plant pests and diseases, revegetation techniques, physiology of plant growth, plant selection and culture, soils and plant nutrition, and calculations for materials.

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 Prepare equipment and materials	<p>1.1 Tools and materials are selected for the task to be undertaken according to manufacturers guidelines and Occupational Health&Safety (OHS) regulations.</p> <p>1.2 Plant materials are identified, obtained and stored according to enterprise guidelines.</p> <p>1.3 Labour and machinery requirements are estimated and organised.</p> <p>1.4 Schedule of works is prepared and provided to management/client.</p>
2 Prepare the revegetation site	<p>2.1 Site preparation is undertaken according to planting plan and/or supervisor's instructions.</p> <p>2.2 Soil ameliorants are used if necessary according to job specifications.</p> <p>2.3 Revegetation site is marked out according to supervisor's directions and/or plans.</p> <p>2.4 All competing plants, debris and pollutants are treated according to enterprise guidelines.</p> <p>2.5 Treatments are selected and applied according to enterprise guidelines and manufacturers instructions.</p> <p>2.6 Protective structures are installed as required.</p>
3 Effect revegetation works	<p>3.1 Revegetation works are effected according to enterprise guidelines.</p> <p>3.2 All plants materials are inspected prior to revegetation works and defective materials are discarded.</p> <p>3.3 Plant materials to be installed are treated according to enterprise guidelines.</p> <p>3.4 Plant materials are installed according to planting program and enterprise guidelines.</p>

- 3.5 Remedial action is undertaken to ensure all of the revegetation program requirements have been implemented.
- 3.6 Potential threats to revegetation works are identified and reported according to enterprise guidelines.
- 4 Maintain revegetated site
 - 4.1 Site is maintained according to the planting program requirements and enterprise guidelines.
 - 4.2 Remedial action and plant protection is undertaken according to the needs of the **species**.
 - 4.3 Tools and equipment are cleaned, maintained and stored consistent with manufacturers' specifications and enterprise guidelines.

Required Skills and Knowledge

Not applicable.

Evidence Guide

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

Competence in implementing revegetation works requires evidence that a site has been appropriately revegetated and maintained according to enterprise guidelines and industry best practice. The skills and knowledge required to implement revegetation works must be **transferable** to a range of work environments and contexts. For example, this could include different environments, plant species and revegetation techniques.

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:

Revegetation techniques.

Ecosystems, provenance and habitat requirements.

Factors affecting the timing and method of planting.

Identification of pests and diseases of trees.

Principles and methods relating to the prevention and control of pests and diseases.

Safety requirements when handling and using hazardous goods.

Nutrient requirements of a range of plant species and cultivars.

Physiology of plant growth.

Techniques for protecting and securing/anchoring trees and shrubs.

Plant selection and culture.

Soils and nutrients.

Calculations for materials.

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:

Prepare equipment and materials.

Prepare a planting site.

Effect revegetation works.

Maintain revegetated site.

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.

1. How can **communication of ideas and information (2)** be applied?

Inform fellow workers of works.

2. How can **information be collected, analysed and organised (2)**?

Schedule of works.

3. How are **activities planned and organised (2)**?

Equipment, machinery and materials.

4. How can **team work (2)** be applied?

Carrying out revegetation works.

5. How can the use of **mathematical ideas and techniques (1)** be applied?

Calculation of materials.

6. How can **problem-solving skills (2)** be applied?

Defects in materials, problems requiring remedial action.

7. How can the **use of technology (2)** be applied?

Tools and equipment.

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 sorts of site conditions may be included?	Soil types, moisture content, pH levels, salinity, texture, compaction, aspect, pollutants, toxicity, climate, buildings, road works and shade.
Which species selected may be relevant to this standard?	Native and exotic plants.
Which plant materials might be included?	Seedlings, seeds, cuttings, divisions, bulbs, corms, rhizomes, or transplanted stock.
Which establishment methods may be used?	Hand planting, mechanical planting, direct seeding, encouragement of natural regeneration, mechanical sowing and fire.
Which forms of earthworks may be considered?	Irrigation, drainage, ripping, cultivating and clearing debris.

What sorts of **growing requirements** may be included?

Time of planting, pruning, depth and drainage.

How might **maintenance** be undertaken?

By watering, mulching, fertilising, protection, staking and weeding.

Which **protective structures** might be included?

Signs, fences, barriers, cloches, stakes and mulches.

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

Unit Sector(s)

Not applicable.