



Australian Government

Assessment Requirements for AHCECR304 Undertake direct seeding

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has prepared at least one revegetation site for direct seeding and used techniques and equipment to distribute seed according to planned specifications.

There must also be evidence that the individual has:

- conducted work according to workplace health and safety and biosecurity procedures
- prepared the site for seeding with consideration to environmental impacts
- conducted seeding to maximise germination response
- completed seeding operations with no damage to the environment
- operated, cleaned, maintained and stored equipment safely and according to manufacturer instructions and workplace requirements.
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Knowledge Evidence

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:

- seeding techniques used on natural area and revegetation sites
- ecological principles related to revegetation and seeding of sites, including:
 - recognition of fundamental ecosystem structures
 - interactions between flora and fauna and impact on ecological stability
 - vegetation types and their general characteristics relevant to seeding operations
- importance of biodiversity when restoring a site for ecological stability:
 - terrestrial plants and basic plant community structures
 - marine and water plants and interaction with marine creatures
 - contribution of revegetation and seeding work for promoting biodiversity

- relationships between microbiota and seed germination
- basic genetic principles for ecological restoration, including:
 - protecting the genetic integrity of local genotypes
 - ensuring sufficient genetic diversity for survival and adaptation
- identifying ecological areas with natural regeneration potential
- operation, maintenance and safety of seeding equipment
- environmental factors to be considered for direct seeding operations, including:
 - ecology in land based, coastal zones or marine parks
 - marine, coastal shore and terrestrial species
 - pollution and potential damage to seed germination
 - soil type and geology for accessing sites and conducting seeding operations
- factors affecting the timing and method of seeding, including:
 - weather
 - climate
 - tidal influences
 - soil/substrate type and condition
 - access to site
 - impact of plant growth cycles
- workplace health and safety procedures, including:
 - safety hazards and associated risks on revegetation sites
 - personal protective equipment
 - handling, mixing and using hazardous treatments
 - sun protection
 - materials handling safety
 - exclusion fencing
- basic plant physiology of seeds and seed germination, including:
 - process of seed germination
 - environmental conditions supporting seed germination
 - soil conditions supporting seed germination
 - inhibitor to seed germination
 - seed treatments to promote germination and success
 - viable and non-viable seed.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated on a revegetation site or in an environment that accurately represents workplace conditions

- resources, equipment and materials:
 - seed specified in revegetation plan
 - tools and equipment for preparing site and dispersing seed
 - personal protective equipment
- specifications:
 - specific workplace procedures and processes
 - manufacturer operating instructions for equipment and machinery used
 - revegetation plans and specifications.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>