



Australian Government

Assessment Requirements for AHCAGB514 Manage application of agents to crops or pastures

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.

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 managed the application of a chemical, biological or organic agent to at least one designated crop or pasture, including:

- determined the need for the agent
- developed an application plan that includes addressing environmental and work health and safety issues
- programmed application technology
- monitored the effectiveness of the application.

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:

- technology to manage application of agents to crops and pastures
- Geographic Information Systems (GIS) and Global Positioning Systems (GPS) and how data from these systems is used in farm management
- types of data used to define field parameters, including aspect and slope
- characteristics of pest, weed and disease species including their life cycles and reproduction capability
- principles of integrated pest and weed management
- range and classes of fertilisers, herbicides, insecticides and fungicides available and their basic chemistry
- growth stages of weeds and plant morphology
- the effects on crops of weeds, pests, diseases and/or lack of soil fertility
- mode of action of chemical or biological control agents and long term effects of these agents with respect to plant back periods and resistance
- range and effect of different nozzles, pressures, spray patterns, droplet sizes and basic physics of droplets and fluids
- work health and safety hazards and controls

- environmental impact of agents used
- best management practices and processes to minimise the impact of agents
- commonwealth, state and local government legislation and regulations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - designated crop or pasture
 - chemical, biological or organic agents
 - spray equipment
- specifications:
 - manufacturer instructions for agents and spray equipment
 - legislation, regulations and codes of practice applicable to chemicals and land-based businesses.

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>