



**Australian Government**

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

**Release: 1**

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

## 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>