



Australian Government

Assessment Requirements for AHCBA516 Manage the harvest of crops

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 7.0.

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 and overseen the harvest of an agricultural crop on at least one occasion and has:

- planned and implemented harvesting operations
- organised and scheduled the selection, maintenance and use of technologically efficient harvesting plant and equipment
- established processes or strategies, procedures and controls for crop harvesting
- assessed crop quality, quantity and value of potential yields
- planned and negotiated workforce, contracts and agreements
- communicated instructions, plans, scheduled and performance targets to key stakeholders
- observed, identified and respond to environmental implications and work health and safety issues according to policies and procedures
- assessed financial risk and implemented insurance processes to mitigate risk
- developed management procedures for health, safety, climate and fire risk
- organised logistical requirements for harvesting operations, including:
 - harvesting
 - storage and delivery
 - licenses, permits and notifications
 - reconciliation of equipment and labour against available resources and contract requirements
 - temporary silos, storage bins and other containers for efficient harvesting and transport operations
 - contingencies to address harvest plan inconsistencies
 - records of harvest
- assess and classify crop grades and segregate crops for storage according to marketing plan and industry standards
- manage crop pre-harvest and post-harvest pest and spoilage controls

- implemented workplace health, safety, biosecurity and environmental policies.

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:

- range and functions of harvesting machinery and equipment
- precision agriculture and the role of technology in improving efficiencies, including:
 - self-drive, auto steer, global navigation satellite systems (GNSS) and laser technologies
 - digital and remote sensors
 - remote piloted systems
 - controlled traffic farming (CTF) principles and impacts
 - variable rate technology (VRT)
 - capability and use of harvesting equipment
 - yield mapping
- crop quality and quantity measurement and assessment techniques and parameters
- crop market information and sources
- contracting requirements
- financial risk management including:
 - valuing crops
 - assessing financial risk
 - mitigating risk and insuring crops
- management and maintenance of harvested crop including:
 - moisture content, including drying and aeration
 - pest management and treatments
 - storage options and availability
- managing fire risk on farms, including:
 - harvesting equipment and fire risk
 - stubble and crop waste management
 - fire prevention and control strategies and equipment
 - contacting and arranging support from fire services
- weather conditions and their impact of crop harvesting and storage
- legislation, regulations and industry standards relating to health, safety, contractor engagement, crop treatments, biosecurity and harvesting plant use
- environmental controls and codes of practice applicable to harvesting operations
- management policies and procedures for health and safety, including:
 - licensing requirements harvesting operations
 - use of chemicals and hazardous substances
 - personal protection
 - harvesting, handling, loading, transport and storage

- working at heights and confined spaces with storage bins
- power lines and elevated equipment.

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 broadacre farm suitable for harvesting a crop or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - crop nearing maturity
 - planning and project management tools
 - safety equipment
 - crop sampling and assessment equipment and procedures
- specifications:
 - workplace policies, procedures and processes
 - legislation and codes of practice relevant to crop quality, and storage
- relationships:
 - work team and contractors.

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>