



Australian Government

Department of Education, Employment and Workplace Relations

TLIJ307C Apply grain protection measures

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to apply grain protection procedures within grain storage facilities in accordance with workplace procedures including identifying required pest control measures, preparing for application of pest control measures, monitoring application of pest control measures, ventilating fumigated storages, and maintaining records in accordance with workplace requirements.

Application of the Unit

Work must be carried out in accordance with regulations and workplace requirements relevant to grain storage operations.

Work is performed under some supervision, generally within a team/group environment. It involves the application of regulatory requirements and workplace procedures when applying grain protection measures as part of grain storage operations in the transport, warehousing, distribution and/or storage industries.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Prepare for application of pest control measures	1.1 Legal and workplace requirements for fumigation are followed in accordance with work order 1.2 Fumigation/spray application requirements are followed using silo and grain storage information in accordance with manufacturers instructions 1.3 Written records are confirmed by site measurements and observations 1.4 Access and site specific safety requirements to meet legislation and workplace instructions are determined 1.5 Equipment is checked for conformance to workplace requirements and manufacturers specifications 1.6 Where applicable, storage is checked for gas-proofing in accordance with manufacturers and workplace instructions prior to fumigation
2 Apply pest control measures	2.1 Personal protective equipment and engineering controls are used as instructed 2.2 Fumigant and spray applications are applied in accordance with manufacturers and workplace instructions 2.3 Warning signs are placed in accordance with legislative and workplace requirements 2.4 Application is monitored to ensure effectiveness of operation 2.5 Empty fumigant containers are returned to the manufacturer, retailer or disposed of in accordance with legislative and workplace requirements 2.6 Baits are prepared in accordance with legislation and manufacturers instructions 2.7 Baits are placed in accordance with site requirements and manufacturers instructions

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

Regulations relevant to the application of grain protection measures in grain storage facilities

Relevant OH&S and environmental protection procedures and guidelines

Workplace procedures and policies for the application of grain protection measures

Problems that may occur when applying grain protection measures and appropriate action that can be taken to resolve the problems

Equipment applications, capacities, configurations, safety hazards and control mechanisms

Characteristics of commodity types, varieties and grades, and their identification

Emergency response procedures

Storage and safe handling procedures for fumigants, chemicals and other grain protection materials

Procedures for environmental control and disposal activities

Site layout and obstacles

Required skills:

Communicate effectively with others when applying grain protection measures

Read and interpret instructions, procedures information and labels relevant to the application of grain protection measures

Interpret and follow operational instructions and prioritise work

Complete documentation related to the application of grain protection measures

Operate electronic communication equipment to required protocol

Work collaboratively with others when applying grain protection measures

Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others

Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when applying grain protection measures in accordance with regulatory requirements and workplace procedures

Implement contingency plans for unanticipated situations that may arise when applying grain protection measures

Apply precautions and required action to minimise, control or eliminate hazards that may exist during the application of grain protection measures

Plan own work including predicting consequences and identifying improvements

Monitor work activities in terms of planned schedule

Modify activities depending on differing operational contingencies, risk situations and environments

Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment

Operate and adapt to differences in equipment in accordance with standard operating procedures

Set up and maintain grain protection equipment

Identify, select and efficiently and effectively use equipment needed when applying grain protection measures

Identify pests that infest grain in grain storage facilities

Select and use required personal protective equipment conforming to industry and OH&S standards

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:

the underpinning knowledge and skills

relevant legislation and workplace procedures

other relevant aspects of the range statement

Context of and specific resources for assessment

Performance is demonstrated consistently over a period of time and in a suitable range of contexts

Resources for assessment include:

a range of relevant exercises, case studies and other simulated practical and knowledge assessment, and/or

access to an appropriate range of relevant operational situations in the workplace

In both real and simulated environments, access is required to:

relevant and appropriate materials and/or equipment, and/or

applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

Assessment of this unit must be undertaken by a registered training organisation

As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests

Practical assessment must occur:

through appropriately simulated activities at

the registered training organisation, and/or
in an appropriate range of situations in the
workplace

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Work may be conducted:	in a range of work environments by day or night
Customers may be:	internal or external
Workplaces may comprise:	large, medium or small worksites
Workplace environment may include movement of:	equipment goods products materials vehicular traffic
Work is carried out in accordance with:	required OH&S procedures hazard control strategies, including the use of personal protective equipment manufacturers instructions and labels for the use of fumigants and pest control chemicals
Pest control activities may include:	spraying baiting use of controlled fumigants
Fumigation inert gas may be for the purposes of:	treating identified pests for meeting grain quality standards
Pest control agents:	must be used in accordance with relevant Commonwealth, state or territory legislation
Hazards in the work area may include exposure to:	chemicals and pesticides dangerous or hazardous substances stationary and moving equipment, parts and materials noise, light, energy sources electrical equipment humidity, air temperature, radiant heat

	debris on floor
	faulty equipment
Personal protective equipment may include:	gloves
	safety headwear and footwear
	safety glasses
	two-way radios
	protective clothing
	respirators and fume/dust masks
	high visibility clothing
Requirements for work may include:	site restrictions and procedures
	licensing requirements
	use of safety and personal protective equipment
	communications/recording equipment
	authorities and permits
	emergency procedures
Communication in the work area may include:	phone
	fax
	email/internet
	electronic data interchange (EDI)
	RF systems
	oral, aural or signed communications
Consultative processes may involve:	workplace personnel
	supervisors and managers
	existing and potential customers/clients
	manufacturers of pesticides
	suppliers and contractors
	union representatives
	industrial relations and OH&S specialists
	maintenance, professional or technical staff
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	company procedures
	workplace procedures

Information/documents may include:

organisational procedures
established or standard procedures
operations manuals, job specifications and procedures
induction documentation
competency standards and training materials
manufacturers specifications, labels and instructions for fumigants, chemicals and equipment
material safety data sheets
workplace operating procedures and policies
supplier and/or client instructions
Australian and international standards, criteria and certification requirements
codes of practice including the National Standards for Manual Handling and the Industry Safety Code
relevant regulations including the ADG Code
award, workplace bargaining agreement, other industrial arrangements
OH&S procedures
quality assurance procedures
emergency procedures

Applicable regulations and legislation may include:

relevant codes and regulations pertaining to grain storage
legislation regarding the use of fumigants/poisons
ADG Code and regulations pertaining to the storage and handling of dangerous and hazardous goods
relevant state/territory OH&S legislation
relevant state/territory environmental protection legislation
relevant Australian and international standards and certification requirements
workplace relations regulations including equal opportunity, equal employment

opportunity and affirmative action legislation
workers compensation regulations

Unit Sector(s)

Not applicable.

Competency Field

J - Quality