



Australian Government

TLIJ3006 Implement grain protection procedures

Release: 1

TLIJ3006 Implement grain protection procedures

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to implement grain protection procedures within grain storage facilities in accordance with regulations and workplace procedures, as part of operations in the transport and logistics industry.

It includes identifying required pest control measures, preparing the application and monitoring of pest control measures, ventilating fumigated storages and maintaining records in accordance with workplace requirements.

Work is performed under some supervision, generally within a team/group environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

J – Quality

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Identify required pest control measures	1.1 Stored grain is checked for live and/or dead pests in accordance with workplace procedures 1.2 Pest infestation information, including prevalence, type and location, is gathered from observation 1.3 Actual and potential damage to stored grain is assessed and

documented

- 1.4 Pests causing or likely to cause damage are identified
- 1.5 Hazards are identified, risks are assessed and control measures are implemented
- 1.6 Appropriate form of protection and/or pest control is determined in accordance with workplace procedures
- 1.7 Pest control measures are arranged and/or implemented in accordance with workplace requirements

2 Plan and prepare to apply pest control measures

- 2.1 Spray application and inert atmosphere/fumigation requirements and application procedures are confirmed in accordance with legislative, workplace and customer requirements
- 2.2 Quantity and form of gas/liquid required and exposure period is determined from silo and grain storage information and matched to manufacturer instructions
- 2.3 Method of application is determined based on type of pest to be controlled and site arrangements
- 2.4 Exposure period is determined from pest/s to be controlled and storage specifications
- 2.5 Written records of site are confirmed by site measurements and observations
- 2.6 Access and site specific safety requirements, including appropriate signage, are coordinated to meet legislation and workplace procedures
- 2.7 Equipment and personnel appropriate to task are organised
- 2.8 Storage is sealed in accordance with manufacturer and workplace instructions, and is appropriately tested as required

3 Monitor application of pest control measures

- 3.1 Application is undertaken in accordance with manufacturer instructions, workplace procedures and regulatory framework
- 3.2 Suitable emergency equipment and personnel are coordinated on site during fumigation in accordance with workplace instructions
- 3.3 Selected process is monitored for effectiveness in accordance with manufacturer and workplace instructions

- 3.4 Tests are made to determine leakage of gas, and corrective action is taken where this exceeds workplace limits
- 4 Ventilate fumigated storages**
 - 4.1 Pressure equipment and/or generation equipment are shut down when requested in accordance with workplace procedures
 - 4.2 Ventilation procedures appropriate for storage type are implemented in accordance with workplace procedures
 - 4.3 Tests to legislative and workplace instructions are made to ensure gas has been dispersed before personnel are allowed to enter storage facility/area
 - 4.4 Warning signs and emergency equipment are removed when gas has dispersed to safe levels
 - 4.5 Stored grain is checked for evidence of live and/or dead pests in accordance with workplace requirements
 - 4.6 Empty gas/fumigant containers are returned to manufacturer/retailer or are disposed of in accordance with legislative and workplace requirements
- 5 Maintain records**
 - 5.1 Records of pest control activities are made and stored in accordance with legislative and workplace requirements
 - 5.2 Pest control operations and results are reported in accordance with workplace requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIJ3006A Implement grain protection procedures.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIJ3006 Implement grain protection procedures

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- carrying out work in accordance with required work health and safety (WHS)/occupational health and safety (OHS) procedures and hazard control strategies and using:
 - personal protective equipment
 - manufacturer instructions
 - fumigant and pest control chemical labels
- communicating and working effectively with others
- completing relevant documentation
- identifying pests that infest grain in grain storage facilities
- identifying, selecting and using required equipment efficiently and effectively
- operating and adapting to differences in equipment in accordance with operating procedures
- reading, interpreting and following relevant instructions, procedures information and labels
- reporting and/or rectifying identified problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- setting up and maintaining grain protection equipment
- using pest control agents in accordance with relevant Commonwealth, state/territory legislation.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- classification procedures
- emergency response procedures
- equipment applications, capacities, configurations, safety hazards and control mechanisms
- problems that may occur and appropriate action that can be taken to resolve these problems
- procedures and precautions for preparing grain protection agents
- procedures for environmental control and disposal activities
- regulations relevant for implementing grain protection measures in grain storage facilities
- relevant WHS/OHS and environmental protection procedures and guidelines
- site layout and obstacles
- storage and safe handling procedures for fumigants, chemicals and other grain protection materials
- workplace procedures and policies for implementing grain protection measures.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment include:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Links

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