



Australian Government

Department of Education, Employment and Workplace Relations

TLIJ2004A Implement grain monitoring measures

Release: 1

TLIJ2004A Implement grain monitoring measures

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to implement grain monitoring measures within grain storage facilities in accordance with workplace procedures, including installing and checking grain quality control equipment, and monitoring the quality of stored commodities in accordance with workplace requirements. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

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 implementing grain monitoring measures as part of grain storage operations in the transport, warehousing, distribution and/or storage industries.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not Applicable

Employability Skills Information

Employability Skills This unit contains employability skills.

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

ELEMENT

PERFORMANCE CRITERIA

1 Install grain quality control equipment

- 1.1 Procedures for maintaining the quality of stored grain are identified from work plans and considering climatic conditions, types of storage and general environment
- 1.2 Aeration equipment (where required) is installed to workplace and site requirements to maintain appropriate grain temperature and moisture content
- 1.3 Inspection/sampling equipment and procedures are confirmed and implemented in accordance with workplace procedures
- 1.4 Equipment is checked to ensure correct set-up and operation
- 1.5 Equipment is maintained in accordance with workplace requirements and manufacturers instructions
- 1.6 Rectification of faults in equipment is undertaken in accordance with workplace procedures

2 Monitor the quality of stored commodities

- 2.1 Stored commodities and associated facilities are inspected for signs of damage or potential for damage
- 2.2 Required repairs to facilities are reported to appropriate personnel for action
- 2.3 Monitoring for pest infestations and climatic contamination/damage to grain is regularly completed in accordance with workplace sampling/inspection procedures
- 2.4 Results of sampling/inspections are recorded and reported in accordance with workplace procedures
- 2.5 Follow-up action to protect grain quality is undertaken in accordance with workplace procedures

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 implementation of grain monitoring measures in grain storage facilities
- Relevant OH&S and environmental protection procedures and guidelines
- Workplace procedures and policies for the implementation of grain monitoring measures
- Problems that may occur when implementing grain monitoring measures and appropriate action that can be taken to resolve the problems

REQUIRED KNOWLEDGE AND SKILLS

- Equipment applications, capacities, configurations, safety hazards and control mechanisms
- Classification procedures
- Emergency response procedures
- Storage and safe handling procedures
- Procedures for environmental control and disposal activities
- Site layout and obstacles

Required skills:

- Communicate effectively with others when implementing grain monitoring measures
- Read and interpret instructions, procedures, information and labels relevant to the implementation of grain monitoring measures
- Interpret and follow operational instructions and prioritise work
- Complete documentation related to the implementation of grain monitoring measures
- Operate electronic communication equipment to required protocol
- Work collaboratively with others when implementing grain monitoring 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 implementing grain monitoring measures in accordance with regulatory requirements and workplace procedures
- Implement contingency plans for unanticipated situations that may arise when implementing grain monitoring measures
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during the implementation of grain monitoring 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 implementing grain monitoring measures
- Select and use required personal protective equipment conforming to industry and OH&S standards

Evidence Guide

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/or 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 equipment, and
 - 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 activities in an appropriately simulated environment 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
Inspection/sampling processes may include:	• turning • visual inspection • hand sampling • grain sieves • robes and spears • trapping
Problems identified in commodities and facilities may include:	• presence of water or water damage • presence and activity of pests • dead vertebrate pests in stored grain • damage or deterioration of storage facility • storm damage • inappropriate grain temperature and moisture levels
Types of storage and environment may include:	• permanent and/or temporary storage • fixed and/or portable commodity handling equipment • site buildings • haulage vehicles • rail loops • walkways and access points in buildings and facilities • site surroundings
Grain aeration involves:	• set-up, maintenance, operational control and dismantling of equipment
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

RANGE STATEMENT

Personal protective equipment may include:	• electrical equipment • humidity, air temperature, radiant heat • debris on floor • faulty equipment • 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 • organisational procedures • established or standard procedures
Information/documents may include:	• operations manuals, job specifications and procedures • induction documentation • competency standards and training materials • manufacturers specifications and instructions

RANGE STATEMENT

Applicable regulations and legislation may include:

- 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
- 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

Competency Field

J - Quality