



**Australian Government**

**Assessment Requirements for  
FBPGRA4004 Establish and supervise dust  
control procedures in a grain processing  
enterprise**

**Release: 1**

# Assessment Requirements for FBPGRA4004 Establish and supervise dust control procedures in a grain processing enterprise

## Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package version 1.0.

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- analysed work areas and equipment in grain enterprises for dust and fire risk
- scheduled housekeeping, training and maintenance procedures to achieve objectives while minimising impact on production, including:
  - scheduling maintenance for dust suppression systems and equipment, and explosion relief panels
  - bin and silo inspections and cleaning
  - testing and maintenance of fire and explosion suppression systems
- controlled potential ignition sources
- assessed adequacy of dust control and dust explosion relief equipment
- determined maintenance requirements
- assessed automatic and manual monitoring techniques against enterprise needs
- established procedures for reporting non-conformances
- established emergency procedures
- identified training needs of employees, including induction training.

## 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:

- technologies and techniques for controlling grain dust in grain milling, handling and storage facilities, including:
  - pneumatic dust collection
  - housekeeping
  - enclosing of equipment
  - use of liquid additives

- misting and fogging (where permitted)
- advantages and disadvantages of mechanical and pneumatic product conveying
- types of bin/silo and exhaust designs and implications for dust generation and control
- requirements for a grain dust explosion to occur, including typical sources in a grain enterprise:
  - oxygen
  - ignition
  - fuel
  - contained space
- effects of fungal and pest infestation on grain and flour temperature
- minimum explosive concentrations (MEC) for grain dust in the milling or storage operation that will vary according to the type of grain and particle size
- location of bin explosion relief panels
- explosion suppression systems
- confined space procedures and regulations.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - personal protective equipment relevant to flour milling operations
  - grain storage facilities
  - sampling schedules and test procedures and equipment
  - cleaning procedures, materials and equipment
- specifications:
  - work procedures, including advice on safe work practices, food safety, quality and environmental requirements
  - documentation and recording requirements and procedures.

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=78b15323-cd38-483e-aad7-1159b570a5c4>