



Australian Government

FBPGRA3008 Implement a rice colour sorting process

Release: 1

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Modification History

Release	Comments
Release 1	This version released with the FBP Food, Beverage and Pharmaceuticals Training Package Version 1.0

Application

This unit of competency describes the skills and knowledge required to operate an optical rice colour sorting process to remove impurities and substandard rice received from the whitening process.

The unit applies to individuals who are production workers in the rice processing environment and are responsible for the colour sorting process. They work under minimal supervision and take responsibility for their own work and that of others in their team.

All work must be carried out to comply with workplace procedures, in accordance with State/Territory food safety, and work health and safety, regulations and legislation that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Grain processing (GRA)

Elements and Performance Criteria

Elements	Performance criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for safe work in a rice colour sorting process	1.1 Select and fit personal safety protection equipment according to workplace safety procedures 1.2 Select and fit hygiene protection equipment according to workplace food safety hygiene procedures

Elements	Performance criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Perform personal hygiene cleaning procedures 1.4 Receive and interpret instructions on rice colour sorting activity and performance requirements
2. Prepare the rice colour sorting equipment for operation	2.1 Ensure raw materials are available to meet operating requirements 2.2 Identify and confirm the status of cleaning and maintenance requirements 2.3 Fit and adjust machine components and related attachments according to operating requirements 2.4 Enter processing/operating parameters to meet safety and production specifications 2.5 Check, adjust and conduct routine maintenance on equipment to ensure required performance 2.6 Conduct pre-start checks according to workplace instructions
3. Operate and monitor the rice colour sorting process	3.1 Start and operate process according to workplace procedures 3.2 Monitor equipment to identify variation in operating conditions 3.3 Identify variation in equipment operation, and report maintenance requirements according to workplace reporting procedures 3.4 Collect samples and test to ensure rice meets colour specifications 3.5 Identify, rectify or report out-of-specification product/process to maintain process within specification 3.6 Ensure workplace meets housekeeping standards 3.7 Maintain records according to workplace requirements
4. Shut down the rice colour sorting process	4.1 Identify appropriate shutdown procedure 4.2 Shut down the process safely according to workplace procedures 4.3 Identify maintenance requirements, and report according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skills	Description
Reading	Reads and interprets instructions, operating procedures, specifications, and other documentation from a variety of sources, and consolidates information to determine rice production actions and activity
Writing	Accurately records and completes organisational documentation using clear language, correct spelling, grammar and terminology when reporting and maintaining rice processing records
Numeracy	- Interprets and manipulates numerical information for volumes, weights and measures - Performs mathematical calculations to check, interpret and confirm results of system tests
Oral communication	Effectively participates in verbal exchanges using collaborative and inclusive techniques, including active listening and questioning, and reading of verbal and non-verbal signals to convey and clarify information
Navigate the world of work	- Takes full responsibility for following policies, procedures and industry standards - Identifies and acts on issues that contravene relevant policies, procedures and legal requirements
Interact with others	Cooperates with others and contributes to work practices where joint outcomes are expected and deadlines are to be met
Get the work done	- Takes responsibility for planning, sequencing and prioritising tasks and workload for efficiency and effective outcomes - Makes routine decisions and implements standard procedures for routine tasks, using formal decision-making processes for more complex and non-routine situations - Contributes to continuous improvement of current work practices by applying basic principles of analytical and lateral thinking - Uses the main features and functions of digital tools to complete work tasks and access information

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPGRA3008 Implement a rice colour sorting process	ZRGRPCS2A Operate a rice colour sorting process	Updated to meet Standards for Training Packages Change of coding to reflect	No equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
		revised AQF level Changes to the title, elements and performance criteria	

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPGRA3008 Implement a rice colour sorting process

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Performance Evidence

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

There must be evidence that the individual has implemented a rice colour sorting process for at least three rice grain varieties, including:

- accessed and interpreted workplace information for colour sorting process requirements
- confirmed supply of necessary materials and services
- conducted pre-start checks, started, operated, monitored and adjusted process equipment to achieve required outcomes
- selected, fitted and used personal protective equipment
- followed workplace health and safety procedures
- monitored control points and conducted inspections to confirm process remains within specification
- taken corrective action in response to out-of-specification results
- monitored supply and flow of materials to and from the colour sorting process
- diagnosed common faults, and rectified or reported equipment failure within level of responsibility and according to workplace procedures
- completed workplace records according to procedures
- maintained work area to meet housekeeping standards.

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:

- purpose and basic principles of the rice colour sorting process, including:
 - methods for determining the number of passes through the colour sorting process
 - process flow and the effect of rice colour sorting on the end product
 - visual identification of short, medium and long grain rice varieties used within the organisation

- basic operating principles of colour sorting equipment, including:
 - primary colour sorter
 - secondary colour sorter
- an operational understanding of main colour sorting equipment components:
 - status and purpose of guards
 - equipment operating capacities and applications
 - purpose and location of sensors and related feedback instrumentation
 - services required and action to take if services are not available
 - inspection of equipment condition to identify any signs of wear and problems
 - appropriate settings and/or related parameters for different impurities, and the importance of settings for glass
 - appropriate adjustments to maintain product specifications
 - isolation or lock-out procedures
 - confirming that equipment is clean and correctly configured for processing requirements
 - confirming that sensors and controls are correctly positioned
 - confirming that scheduled maintenance has been carried out
 - confirming that all safety guards are in place and operational
 - product/process changeover procedures and responsibilities
- quality characteristics, including:
 - common causes of product variation, and corrective action
 - requirements of materials and the effect of variation in raw materials on colour sorting process
 - sampling and testing associated with process monitoring and control
- equipment operating requirements, parameters and corrective action required where operation is outside specified parameters
- recognition and fault-finding for typical equipment faults and related problems, including:
 - recognition of signs and symptoms of faulty equipment
 - early warning signs of potential problems
 - requirements of different shutdowns, including emergency and routine shutdowns, and procedures to follow in the event of a power outage
- methods used to monitor the rice colour sorting process, including:
 - inspecting
 - measuring
 - testing
- contamination/food safety risks associated with the process, and related control measures
- cleaning and sanitation procedures
- work health and safety hazards and controls, including awareness of the limitations of protective clothing and equipment relevant to the work process
- isolation, lock-out and tag-out procedures and responsibilities
- procedures and responsibility for reporting production and performance information

- environmental issues and controls relevant to the process, including waste/rework collection and handling procedures related to the process.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - an industrial rice processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective clothing and equipment
 - commercial rice colour sorters and related equipment and services
 - commercial quantity of rice to be sorted
 - cleaning materials and equipment
- specifications:
 - work procedures, including advice on safe work practices, food safety, quality and environmental requirements
 - information on equipment capacity and operating parameters
 - equipment operating instructions and manuals
 - production schedule
 - specifications, control points and processing parameters
 - sampling schedules and test procedures and equipment
 - documentation and recording requirements and procedures
 - cleaning procedures.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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