

**Modification history**

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

FBPGRA2008	Operate a break roll process
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down a process to separate bran from the endosperm.</p> <p>This unit applies to individuals who work in a grain processing production environment. It typically targets the production worker responsible for applying basic operating principles to the operation and monitoring of break roll equipment and processes.</p> <p>All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety legislation that apply to the workplace.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Grain processing (GRA)

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 the break roll equipment and process for operation	1.1 Confirm materials are available according to operating requirements 1.2 Identify and ensure cleaning and maintenance requirements have been met according to food safety requirements 1.3 Select, fit and use personal protective equipment 1.4 Fit and adjust machine components and related attachments according to operating requirements 1.5 Enter processing or operating parameters to meet safety and production requirements 1.6 Check and adjust equipment to ensure optimum performance 1.7 Carry out pre-start checks according to operator instructions
2. Operate and monitor the break roll process	2.1 Start and operate the process according to work health and safety and operating procedures 2.2 Monitor equipment to identify variation in operating conditions 2.3 Identify variation in equipment operation and report maintenance requirements 2.4 Confirm that specifications are met at each stage according to product specifications 2.5 Identify, rectify or report out-of-specification product or process outcomes according to workplace procedures 2.6 Maintain the work area according to work health and safety and operating procedures 2.7 Maintain workplace records according to workplace procedures
3. Shut down the break roll process	3.1 Identify the appropriate shutdown procedure 3.2 Shut down the process safely according to operating procedures 3.3 Identify and report maintenance requirements according to workplace procedures

<b>Foundation Skills</b>	
<i>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.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Interpret directions for the safe operation of equipment</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Report equipment failure on paper-based and electronic media</li> <li>Record maintenance requirements on paper-based and electronic media</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Interpret gauges for monitoring equipment operation</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>Apply workplace procedures to own role and responsibilities</li> <li>Understand tasks and responsibilities required for performing own role in the workplace</li> <li>Ask questions to clarify understanding or seek further information</li> </ul>
Interact with others	<ul style="list-style-type: none"> <li>Use oral communication skills as specified by the organisation, including questioning, active listening, asking for clarification and seeking advice from supervisor</li> <li>Communicate and report operational and safety information to relevant personnel</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Maintain a clean and hazard-free work area</li> <li>Maintain hygiene standards and wear required personal protective equipment</li> <li>Identify faults and related causes, including signs and symptoms of faulty equipment and early warning signs of potential problems</li> <li>Maintain quality requirements for the sanitisation and use of equipment</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
FBPGRA2008 Operate a break roll process	FDFGR2008A Operate a break roll process	Updated to meet Standards for Training Packages	Equivalent unit

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4</a>
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<b>TITLE</b>	<b>Assessment requirements for FBPGRA2008 Operate a break roll process</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that, on at least one occasion, the individual has:</p> <ul style="list-style-type: none"> <li>• conducted pre-start checks on machinery and equipment used to separate bran from the endosperm</li> <li>• selected, fitted and used personal protective equipment</li> <li>• started, operated, monitored and adjusted process equipment to separate bran from the endosperm to achieve required quality outcomes</li> <li>• taken corrective action in response to typical faults and inconsistencies</li> <li>• completed workplace records</li> <li>• applied safe work practices and identified work health and safety hazards and controls</li> <li>• safely shut down equipment</li> <li>• applied food safety procedures to work practices.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>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:</p> <ul style="list-style-type: none"> <li>• purpose and basic principles of the break roll process, including how and why the endosperm separation takes place</li> <li>• basic operating principles of equipment, including: <ul style="list-style-type: none"> <li>• main equipment components</li> <li>• status and purpose of guards</li> <li>• equipment operating capacities and applications</li> <li>• the purpose and location of sensors and related feedback instrumentation</li> </ul> </li> <li>• services required and action to take if services are not available</li> <li>• the flow of the break roll process and the effect of outputs on downstream processes</li> <li>• quality characteristics to be achieved by the break roll process</li> <li>• quality requirements of materials and effect of variation on break roll process performance, including the effect of moisture variation and related scope to adjust process throughput</li> <li>• operating requirements and parameters and corrective action required where operation is outside specified operating parameters</li> <li>• typical equipment faults and related causes, including: <ul style="list-style-type: none"> <li>• signs and symptoms of faulty equipment</li> <li>• early warning signs of potential problems</li> <li>• symptoms of chokes, blockages or breaches and action required to clear</li> </ul> </li> <li>• methods used to monitor the break roll process, including inspecting, measuring and testing as required by the process</li> <li>• inspection or test points (control points) in the break roll process and the related procedures and recording requirements</li> <li>• contamination and food safety risks associated with the break roll process and related control measures</li> <li>• common causes of variation and corrective action required</li> <li>• work health and safety hazards and controls, including the limitations of protective clothing and equipment relevant to the work process</li> <li>• requirements of different shutdowns as appropriate to the break roll process and workplace production requirements, including: <ul style="list-style-type: none"> <li>• emergency and routine shutdowns</li> <li>• procedures to follow in the event of a power outage</li> </ul> </li> <li>• isolation, lock out and tag out procedures and responsibilities</li> <li>• procedures and responsibility for reporting production and performance information</li> <li>• environmental issues and controls relevant to the break roll process, including waste and rework collection and handling procedures related to the process</li> <li>• basic operating principles of process control, including the relationship between control panels and systems and the physical equipment</li> <li>• routine maintenance procedures for operating a break roll process</li> </ul>	

<b>Knowledge Evidence</b>	
<ul style="list-style-type: none"><li>• cleaning and sanitation procedures for operating a break roll process.</li></ul>	
<b>Assessment Conditions</b>	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"><li>• physical conditions:<ul style="list-style-type: none"><li>• a grain processing workplace or an environment that accurately represents workplace conditions</li></ul></li><li>• resources, equipment and materials:<ul style="list-style-type: none"><li>• personal protective clothing and equipment required for a grain processing production environment</li><li>• production schedule and batch instructions</li><li>• break roll process and related equipment and services</li><li>• conditioned grain suitable for the break roll process</li></ul></li><li>• specifications:<ul style="list-style-type: none"><li>• work procedures, including advice on safe work practices, food safety, quality and environmental requirements.</li></ul></li></ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
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