Modification history

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| Release | Comments |
| Release 1 | This version released with FBP Food, Beverage and Pharmaceutical Training Package version 5.0 |

| FBPGRA3XX6 | Operate and monitor a scalping and grading process |
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| Application | This unit of competency describes the skills and knowledge required to set up, operate, adjust and shut down a production process for the separation of the break stock (chop) into appropriate flows to the next break, purifiers and sizing rolls.  This unit applies to individuals who work in a grain processing environment. It typically targets the production worker responsible for applying basic operating principles to the operation and monitoring of equipment and processes used for scalping and grading stock.  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.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Grain processing (GRA) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare the scalping and grading equipment and process for operation | 1.1 Confirm materials are available to meet specification requirements  1.2 Select, fit and use personal protective equipment  1.3 Identify and confirm cleaning and maintenance requirements have been met according to health, safety and food safety requirements  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 Carry out pre-start checks according to operator instructions |
| 2. Operate and monitor equipment | 2.1 Start and operate the process according to safe work procedures  2.2 Monitor equipment and services to ensure optimal operations and break stock is separated in line with specifications  2.3 Identify any variation in equipment operation and troubleshoot to identify solution  2.4 Adjust equipment to ensure optimum performance  2.5 Identify, rectify or report out-of-specification product and process outcomes according to workplace procedures  2.6 Maintain the work area according to safe work and food safety procedures  2.7 Maintain workplace records including traceability and biosecurity records, according to workplace procedures |
| 3. Shut down the scalping and grading 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  3.4 Ensure waste is disposed of in line with environmental requirements |

| 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. | |
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| Skill | Description |
| Reading | * Interpret directions for the safe operation of equipment * Operate equipment using digital interface |
| Writing | * Record product and processing information on electronic, digital and/or paper-based formats |
| Numeracy | * Monitor supply and flow of materials to and from the scalping and grading process * Accurately interpret readings on scales and gauges * Measure product using weight (kg, T) |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPGRA3XX6 Operate a scalping and grading process | FBPGRA2006 Operate a scalping and grading process | Unit title and code updated to better match work task  Minor changes to Performance Criteria to clarify intent  Foundation skills refined  Performance Evidence clarified  Minor changes to Knowledge Evidence and Assessment Conditions | Equivalent unit |

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

| TITLE | Assessment requirements for FBPGRA3XX6 Operate and monitor a scalping and grading process |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.  There must be evidence that the individual has operated and monitored a scalping and grading process to break stock at least one batch of grain to specification, ready to flow to the next break, purifiers and sizing rolls, including:   * applying safe work practices * applying food safety procedures to work practices * checking chop of grain * taking corrective action in response to typical faults and inconsistencies. | |

| Knowledge Evidence |
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| 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 grain scalping and grading process * basic operating principles of equipment, including: * main equipment components * status and purpose of guards * equipment operating capacities and applications * the purpose and location of sensors and related feedback instrumentation * services required and action to take if services are not available * good manufacturing practices (GMP) relevant to work task * the flow of the scalping and grading process and the effect of outputs on downstream milling processes * quality characteristics to be achieved by the scalping and grading process * quality requirements of materials and effect of variation on scalping and grading process performance * operating requirements and parameters and corrective action required where operation is outside specified operating parameters * typical equipment faults and related causes, including: * signs and symptoms of faulty equipment * early warning signs of potential problems * methods used to monitor the scalping and grading production process, including inspecting, measuring and testing as required by the process * inspection or test points (control points) in the scalping and grading process and the related procedures and recording requirements * contamination/cross contamination and food safety risks associated with the scalping and grading process and related control measures, including microbiological, physical, chemical and allergen hazards * common causes of variation and corrective action required * health and safety hazards and controls * requirements of different shutdowns as appropriate to the scalping and grading process and workplace production requirements, including: * emergency and routine shutdowns * procedures to follow in the event of a power outage * 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 scalping and grading process, including waste and re-work collection and handling procedures * basic operating principles of process control, including the relationship between control panels and systems and the physical equipment * routine maintenance procedures for scalping and grading equipment * cleaning and sanitation procedures for work space and equipment * procedures to track traceability of product * procedures to ensure biosecurity requirements are met. |

| Assessment Conditions |
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| 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: * scalping and grading equipment and related services * personal protective clothing and equipment * grain for scalping and grading * production schedule and batch instructions * cleaning materials and equipment * specifications: * scalping and grading specification * work procedures, including advice on safe work practices, food safety, quality and environmental requirements * information on equipment capacity and operating parameters * recording requirements.   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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