Modification history

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| Release | Comments |
| Release 1 | This version released with FBP Food, Beverage and Pharmaceutical Training Package version 2.0. |

| FBPOPR3003 | Operate interrelated processes in a production system |
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| Application | This unit of competency describes the skills and knowledge required to set up, operate, adjust and monitor interrelated processes in a production system.  This unit applies to individuals who work under broad direction and take responsibility for their own work.  This unit applies to individuals who work as senior operators, who apply skills and knowledge of the operational requirements of the production system for the industry in which it is applied. A system typically involves a series of interrelated processes that must be coordinated and concurrently operated to produce the required outcome. Individual processes may be directly operated, automated and/or operated by others. System operation requires higher level planning and problem-solving skills applied to the series of processes than is required when operating an individual unit of equipment or multiple pieces of the same equipment.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.  NOTE: The terms 'occupational health and safety' (OHS) and 'work health and safety' (WHS) generally have the same meaning in the workplace. In jurisdictions where the national model WHS legislation has not been implemented, RTOs must contextualise the unit of competency by referring to current OHS legislative requirements. |
| Prerequisite Unit | Nil |
| Unit Sector | Operational (OP) |

| 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 production system for operation | 1.1 Confirm equipment, materials and services are available to meet production requirements  1.2 Identify and confirm cleaning requirements and equipment status  1.3 Wear appropriate personal protective clothing and ensure correct fit  1.4 Enter processing/operating parameters and select or adjust machine settings to meet safety and production requirements  1.5 Load or position materials, ingredients and/or product to meet production requirements  1.6 Conduct pre-start checks, adjust equipment performance and confirm equipment is ready and safe to operate |
| 2. Operate and monitor the production system | 2.1 Start up and operate and monitor the system and equipment for variation in operating conditions  2.2 Identify, rectify and report out-of-specification product and process outcomes to maintain the process within specification  2.3 Maintain the work area and report maintenance requirements  2.4 Conduct work according to workplace environmental standards |
| 3. Hand over production system operation | 3.1 Maintain workplace records according to workplace recording requirements  3.2 Conduct handover procedures  3.3 Confirm process operators are properly informed of system and related equipment status at completion of handover |
| 4. Shut down the production system | 4.1 Identify the appropriate shutdown procedure  4.2 Shut down the system  4.3 Identify and report maintenance requirements |
| 5. Contribute to continuous improvement of the production system | 5.1 Review system performance is reviewed against output plan/targets  5.2 Identify and investigate opportunities for system improvement  5.3 Develop and implement proposals for improvement within workplace planning arrangements, authority levels and 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. | |
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| Skill | Description |
| Reading | * Interpret workplace and standard operating procedures relevant to job role * Interpret production requirements |
| Writing | * Record operating, routine maintenance and shutdown information on paper-based and electronic media |
| Numeracy | * Monitor and interpret production and process control indicators and data * Monitor supply and flow of materials to and from the process |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPOPR3003 Operate interrelated processes in a production system | FDFOP3003A Operate interrelated processes in a production system | Updated to meet Standards for Training Packages  Minor changes to Performance Criteria to clarify intent | Equivalent unit |

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

| TITLE | Assessment requirements for FBPOPR3003 Operate interrelated processes in a production system |
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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 safely and effectively operated interrelated processes in a production system, on at least one occasion, including:   * conducting pre-start checks on production system components * confirming machine set-up is ready to achieve production requirements * correctly using required personal protective equipment * starting, operating, monitoring and adjusting process equipment throughout the system to achieve required quality outcomes * identifying system problems and taking corrective action * conducting operational handovers * shutting down system * identifying and investigating opportunities for operational improvements within areas of responsibility * completing workplace records as required * applying safe work practices and identify WHS hazards and controls * safely shutting down equipment. | |

| 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 the production system, including the system process flow, the interrelationships of each process to identify the impact of variation on related processes, and optimisation options * basic operating principles of equipment and related accessories used by the system, including equipment adjustment points, status and purpose of guards, and range and location/alignment requirements of sensors and related feedback instruments * operating capacities of equipment used in the system, including different types of equipment and/or components by processing/packaging operations * related systems and responsibilities for interaction, including related production systems, services supply, packaging/warehousing, maintenance, laboratory/quality assurance and planning and scheduling * product characteristics and common types of variation in materials and/or ingredients used, including the effect of variation on each stage of the system and scope to adjust or correct * typical production related problems, including equipment faults, common causes and warning signs, incorrect or poor supply of materials, incorrect settings and poor operator control * relevant procedures, specifications and operating parameters for the system and the individual processes * isolation, lock-out and tag out procedures and responsibilities * hazards, risks, controls and methods for monitoring processes within the system, including WHS, food safety, quality and environmental hazards and risks * workplace system and approach to equipment maintenance * process improvement procedures and related consultative arrangements * troubleshooting procedures and problem-solving techniques * communication responsibilities to inform related work areas/support functions and other shifts of operational status and production issues * procedures and responsibility for reporting production and performance information. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a workplace setting or an environment that accurately represents a real workplace * resources, equipment and materials: * personal protective clothing and equipment * production system equipment and related accessories and services * materials/consumables required by the process * communication and recording systems and procedures * specifications: * production schedule and related advice on system requirements * information on equipment capacity and operating parameters.   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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