Modification history

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

| FBPPHM3010 | Operate a compressing 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 compressing process in a pharmaceutical manufacturing facility.  The unit applies to individuals who apply good manufacturing practice (GMP) and operating principles to the compressing process under broad direction, and take responsibility for their own work.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Pharmaceutical (PHM) |

| 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 compressing process for operation | 1.1 Confirm materials and equipment are available and meet production requirements  1.2 Select and fit personal protective clothing and equipment according to workplace procedures  1.3 Fit and adjust machine components and attachments according to production requirements and equipment operation and maintenance manual  1.4 Enter processing and operating parameters according to safety and production requirements  1.5 Conduct pre-start checks according to workplace requirements |
| 2. Operate and monitor the compressing process | 2.1 Start up and monitor compressing process to confirm specifications are within required limits  2.2 Rectify, identify and report out-of-specification tablet products or processes to maintain process within specifications  2.3 Maintain work area according to workplace cleaning standards  2.4 Conduct process according to safety environmental requirements  2.5 Contain, remove and report spillages according to workplace procedures  2.6 Complete documentation according to workplace requirements |
| 3. Shut down the compressing process | 3.1 Confirm the workplace procedures for shutting down the process  3.2 Complete end-of-batch procedures according to batch instructions and workplace procedures  3.3 Safely shut down the process  3.4 Complete records 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 | * Identify relevant information from workplace documentation and interpret requirements for the compressing process |
| Writing | * Complete workplace documentation using appropriate language and in required format |
| Numeracy | * Interpret production requirements for type and number of tablets to be compressed |
| Navigate the world of work | * Identify workplace procedures relevant to own role |
| Interact with others | * Report operational and safety information to relevant personnel using required communication method |
| Get the work done | * Plan, organise and implement tasks required to achieve production outcomes * Use problem-solving skills to analyse product and process faults and decide on appropriate action |

| Range Of Conditions  This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. | |
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| Pre-start must include at least five of the following: | * inspecting equipment condition to identify signs of wear * confirming that equipment is clean and correctly configured for compressing requirements * positioning sensors and controls correctly * ensuring all safety guards are in place and operational * ensuring scheduled maintenance has been carried out * checking and adjusting equipment performance. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPPHM3010 Operate a compressing process | FDFPH2008A Operate a compressing process | Updated to meet Standards for Training Packages. Code changed to reflect AQF alignment. | 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 FBPPHM3010 Operate a compressing process |
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| Performance Evidence | |
| An individual demonstrating competency in this unit must satisfy all the elements and performance criteria of this unit.  There must be evidence that the individual has safely operated at least one compressing process, including:   * selected, fitted and used one of the following: * protective gown * scrubs * smock * statcoat * disposable coverall * selected, fitted and used personal protective clothing and equipment, including: * surgical mask * surgical gloves * disposable overshoes * hair net * conducted pre-start checks required for the safe operation of the compressing process, including five of the following: * inspecting equipment condition to identify signs of wear * confirming that equipment is clean and correctly configured for compressing requirements * positioning sensors and controls correctly * ensuring all safety guards are in place and operational * ensuring scheduled maintenance has been carried out * checking and adjusting equipment performance * started, operated, monitored and adjusted a tablet compressing process to achieve required outcomes * checked control points and conducted inspections to confirm process remains within specification * taken corrective action in response to out-of-specification results * cleaned and maintained work area to meet workplace cleaning standards and environmental requirements. | |

| 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:   * stages of the tablet compressing process, including: * the purpose, methods and outcomes of each stage * stages and changes that occur during compression of tablets * the purpose and characteristics of ingredients and raw materials used in tablet production * types of raw materials used in the compressing process, and related handling and segregation requirements, including handling of hazardous goods * basic operating principles, requirements and parameters of compressing equipment, including: * main equipment components, operating capacities and applications * typical equipment faults and related causes, including signs and symptoms of faulty equipment and early warning signs of potential problems * status and purpose of guards * the purpose and location of sensors and related feedback instrumentation * flow of the compressing process and the effect of outputs on downstream pharmaceutical processes * corrective actions required where operation is outside specified operating parameters * functions and limitations of personal protective clothing and equipment, including: * protective gown, scrubs, smocks, statcoats or disposable coveralls * surgical masks * surgical gloves * disposable overshoes * hair nets * pre-start checks requirements, including: * inspecting equipment condition to identify signs of wear * confirming that equipment is clean and correctly configured for compressing requirements * positioning sensors and controls correctly * ensuring all safety guards are in place and operational * ensuring scheduled maintenance has been carried out * checking and adjusting equipment performance * methods used to monitor compressing process, including inspecting measuring and testing * product and process changeover procedures and responsibilities * end-of-batch procedures, including: * calculating yield * materials reconciliation * product labelling responsibilities and procedures * requirements of different shutdowns, including: * emergency and routine shutdowns * procedures to follow in the event of a power outage * line clearance procedures, including cleaning and sanitation procedures * isolation, lock out and tag out procedures and responsibilities * operating principles of process control, including the relationship between control panels and systems and physical equipment. * GMP requirements associated with the compressing process and related control measures * environmental issues and controls relevant to the compressing process, including waste collection and handling procedures * requirements for completion of workplace documentation. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a pharmaceutical manufacturing workplace or an environment that accurately represents workplace conditions * resources, equipment and materials: * personal protective clothing and equipment * compressing process equipment * sampling and testing equipment * materials required for the compressing process * cleaning materials and equipment associated with compressing process * specifications: * specifications, control points and processing parameters * recording requirements and procedures * workplace documentation relating to compressing process and procedures, including labels * GMP requirements relating to compressing process * information on equipment capacity and operating parameters * production schedule/batch instructions * sampling schedules and test procedures * cleaning procedures associated with compressing process.   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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