Modification history

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

| FBPSUG2022 | Operate a waste water treatment system |
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| Application | This unit of competency describes the skills and knowledge required to operate waste water treatment systems to comply with workplace requirements, trade waste agreements and site environmental authority.  The unit applies to individuals who work under supervision in the sugar milling industry.  All work must be carried out to comply with workplace procedures according to state/territory health and safety regulations, legislation and standards 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 | Sugar milling (SUG) |

| 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 waste water treatment process for operation | 1.1 Confirm chemicals and test equipment are ready for use  1.2 Confirm services are available and ready for operation  1.3 Select, fit and use personal protective equipment according to workplace safety procedures  1.4 Conduct pre-operational checks according to operating procedures  1.5 Calibrate instrumentation and test equipment according to operating specifications  1.6 Identify and report health and safety hazards and maintenance requirements according to workplace safety procedures |
| 2. Operate and monitor the waste water treatment process | 2.1 Start the waste water treatment system according to operating procedures  2.2 Confirm operating condition is maintained within operating requirements  2.3 Monitor, test and adjust waste water quality according to operating procedures  2.4 Operate first flush systems during rainfall events  2.5 Ensure the work area is maintained to workplace cleaning standards |
| 3. Analyse and respond to abnormal performance | 3.1 Analyse water condition and plant operating conditions according to workplace procedures and manufacturer s guidelines  3.2 Take corrective action in response to hazards, out-of-specification test results and/or plant performance  3.3 Implement emergency procedures according to workplace safety procedures |
| 4. Hand over waste water treatment system | 4.1 Maintain workplace records according to workplace procedures  4.2 Carry out handover according to workplace procedures  4.3 Ensure operators are aware of system status and related equipment at completion of handover |
| 5. Shut down the waste water treatment system | 5.1 Safely shut down the system according to operating procedures  5.2 Prepare the system for storage in shutdown mode according to operating procedures  5.3 Identify and report operational maintenance requirements 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 information in workplace documentation |
| Numeracy | * Interpret production and process control indicators and data |
| Navigate the world of work | * Apply workplace procedures relevant to own role |
| Interact with others | * Apply workplace communication practices to report issues or provide information |
| Get the work done | * Access and interpret waste water treatment system process control panels and system * Make routine decisions to correct abnormal performance of waste water treatment system |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPSUG2022 Operate a waste water treatment system | FDFSUG222A Operate a waste water treatment system | Updated to meet Standards for Training Packages | 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 FBPSUG2022 Operate a waste water treatment 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 operated a waste water treatment system in line with workplace contexts and demonstrated each of the following points at least once:   * conducted pre-start checks of equipment and services * selected, fitted and used required personal protective equipment (PPE) * operated, monitored and adjusted waste water treatment system according to operating procedures * maintained work area to meet cleaning standards * handled chemicals safely * reported health and safety risks and maintenance requirements * performed shutdown procedures * conducted shift handover procedure * taken corrective action in response to typical operating faults, out-of-specification results or non-compliance * recorded waste water treatment information * followed waste water system operating procedures. | |

| 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:   * equipment purpose and operating principles of waste water treatment equipment and methods * water cycles for trade waste, storm water and sewerage, including sources and flow patterns * purpose of chemicals used in waste water treatment systems * purpose of first flush systems and their relationship with the waste water treatment system * typical causes of non-conforming water quality, and corrective action required * key health and safety requirements for operating waste water treatment systems: * hazards related to waste water system operation, and associated control measures * correct use of PPE * lock-out, tag-out and isolation procedures * procedures for operational and long-term shutdown * environmental issues and controls for operating waste water treatment systems: * company policy relating to environmental performance * waste characteristics and treatment methods * waste handling requirements and procedures * procedures and responsibility for reporting problems for operating waste water treatment systems * recording requirements and procedures for operating waste water treatment systems. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a sugar milling workplace or an environment that accurately represents workplace conditions * resources, equipment and materials: * PPE * waste water treatment system and related chemicals * water testing equipment * workplace information recording system * specifications: * operating procedures and related advice on equipment operation * water quality sampling and test procedures * workplace cleaning standards and procedures * workplace information requirements and procedures.   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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