Modification history

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

| FBPLAB3003 | Investigate out-of-standard wine equipment and processes |
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| Application | This unit of competency describes the skills and knowledge required to troubleshoot routine testing equipment, procedures or processes in the winery laboratory environment in order to investigate out-of-standard performance.  This unit applies to individuals who are responsible for applying laboratory principles to identify and rectify testing or production problems.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.  All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety, and food safety regulations, legislation and standards that apply to the workplace. |
| Prerequisite Unit | Nil |
| Unit Sector | Laboratory (LAB) |

| 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. Identify out-of-standard test equipment and process performance | 1.1 Select personal protective equipment and clothing and ensure correct fit  1.2 Identify work health and safety hazards, assess risks and implement control measures  1.3 Identify parameters for out-of-standard performance  1.4 Inspect equipment and process outputs to confirm they are operating according to product and process specification  1.5 Identify signs of equipment wear and potential malfunction |
| 2. Identify causes of out-of-standard performance | 2.1 Investigate out-of-standard performance using standard troubleshooting steps  2.2 Review service and calibration records  2.3 Review procedures to ensure correct materials, equipment and protocols were followed  2.4 Conduct appropriate validation or performance checks as required  2.5 Analyse equipment and process variables and prepare a list of possible causes  2.6 Identify most probable causes using appropriate elimination techniques |
| 3. Initiate corrective action | 3.1 Trial corrective action based on outcome of investigation  3.2 Monitor equipment and process to ensure outputs are within specification  3.3 Review trial results and validate corrective action  3.4 Record workplace information in the appropriate format  3.5 Liaise and communicate results to relevant work areas |

| 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 | * Comprehend textual information from a variety of workplace documents accurately |
| Writing | * Produce workplace documents using industry-based vocabulary, grammar and conventions |
| Oral Communication | * Converse clearly using industry-specific language |
| Numeracy | * Calculate numerical information relating to measurements, quantities and laboratory specifications |
| Navigate the world of work | * Comply with policies and procedures * Take responsibility for decisions made to meet laboratory requirements * Recognise own work performance and seek assistance where required |
| Interact with others | * Respect diversity and inclusion in the workplace * Connect and work with others in teams cooperatively |
| Get the work done | * Plan and organise work efficiently * Identify and solve problems creatively * Use the main features and functions of digital tools to complete computational analysis and recording of results * Recognise and act on opportunities for continuous improvement in accordance with workplace practices |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPLAB3003 Investigate out-of-standard wine equipment and processes | FDFLAB3003A Perform routine troubleshooting procedures | Updated to meet Standards for Training Packages  Change of unit name for clarity of purpose  Removal of prerequisites as no longer required by industry | 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 FBPLAB3003 Investigate out-of-standard wine equipment and processes |
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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 demonstrated the following at least once:   * accessing, interpreting and applying workplace information to identify equipment and process specifications and operating parameters * liaising with other work areas: * cellar * production line * maintenance * winemakers * selecting, fitting and using personal protective clothing and equipment * confirming supply of necessary product, materials and services * recognising and identifying anomalous equipment and process outcomes * identifying causes of out-of-standard performance * taking corrective action to rectify out-of-standard performance: * calibrating or standardising * checking reagents * dismantling equipment * replacing components * performing routine maintenance, cleaning or sanitising procedures * adjusting parameters * modifying procedures * manipulating data * monitoring results of corrective action * verifying success of corrective action * reporting and recording corrective action required * maintaining workplace records * conducting routine preventive maintenance. | |

| 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 principles of troubleshooting procedures * principles and procedures relating to test equipment operation * equipment and instrumentation components, purpose and operating parameters * normal range of results for test procedures * how to read, calculate and evaluate results * relevant standards and specifications and basic legislative requirements (e.g. quality, health, safety, labelling and equipment) and their implications * workplace policy and/or procedures with regard to: * reporting out-of-standard performance or non-compliance * calibration and service requirements of test equipment * troubleshooting protocol * problem-solving protocol * making changes to Standard Operating Procedures (SOPs) * services used * significance and method of monitoring control points within a process * causes of variation or inaccuracies and corrective action required * work health and safety hazards and controls * lock-out and tag-out procedures as required * procedures and responsibility for reporting problems * routine maintenance requirements of equipment * sampling techniques. |

| 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: * personal protective clothing and equipment as required * equipment, services and corresponding information as required * products and materials as required * specifications: * work procedures, including advice on company practices, safe work practices, food safety, quality and environmental requirements * instructions, information, specifications and schedules as required * documentation and recording requirements and procedures * relationships (internal and/or external): * internal and external customers and suppliers as required.   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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