Modification history

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

| FBPTEC5001 | Manage and evaluate new product trials |
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| Application | This unit of competency describes the skills and knowledge required to plan, monitor and evaluate new product trials.The unit applies to individuals who work with a team of specialists to develop and engineer new products, and to manage trials in a production environment. They take personal responsibility and exercise autonomy in undertaking complex work. They analyse information and exercise judgement to complete a range of advanced, skilled activities. No occupational licensing or certification requirements apply to this unit at the time of publication. However, legislative and regulatory requirements for food processing exist so local requirements must be checked. All work must comply with Australian food safety standards and relevant codes of practice. 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 | Technical (TEC) |

| 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. Establish trial parameters | 1.1 Define new product specifications 1.2 Identify production resource requirements1.3 Establish project budget and timeline1.4 Ensure trial is of appropriate size to provide reliable process and production information |
| 2. Prepare for new product trial | 2.1 Scale new product recipe or formula to suit trial production2.2 Identify and confirm raw materials and ingredients, packaging components and consumables, to meet trial requirements2.3 Identify available and suitable production equipment2.4 Ensure availability and competency of production personnel to successfully operate the trial process 2.5 Identify environmental, food safety, and work health and safety (WHS) hazards of the trial process and determine appropriate control methods 2.6 Achieve consensus on trial documentation format and procedures 2.7 Establish trial schedule and identify, monitor and address barriers and constraints to achieving schedule  |
| 3. Develop and communicate information on the trial process | 3.1 Inform personnel in related work areas and functions about trial status and progress3.2 Advise operators directly participating in the trial of parameters, roles and responsibilities3.3 Communicate advice on product specifications and operating procedures to the project team |
| 4. Monitor trial progress | 4.1 Monitor trial process to identify actual and potential barriers to achieving schedule 4.2 Ensure trial product is produced within specifications 4.3 Identify or investigate out-of-specification or unacceptable outcomes 4.4 Identify unusual or atypical conditions that could affect achievement of the schedule 4.5 Report and make modifications according to trial arrangements |
| 5. Evaluate trial outcome | 5.1 Review trial objectives against trial outcomes5.2 Assess resource allocations against plan 5.3 Assess trial product against specifications5.4 Compare production parameters and operating conditions with scheduled performance5.5 Identify and investigate significant variances5.6 Identify and report improvement opportunities |

| Foundation SkillsThis 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 |
| Writing | * Prepares documentation expressing ideas and concepts for the development, evaluation and reporting of product trials and being constructed logically, succinctly and accurately
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| Numeracy | * Analyses mathematical information in a range of tasks during the development, costing, scheduling and analysis of product trials
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| Get the work done | * Gathers and analyses data and seeks feedback to improve plans and processes
* Addresses complex problems using formal analytical, lateral thinking techniques experience and knowledge to focus in on trial design parameters
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPTEC5001 Manage and evaluate new product trials | FDFTEC5001A Manage and evaluate new product trials | Updated to meet Standards for Training PackagesMinor changes to Performance Criteria for clarity | 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 FBPTEC5001 Manage and evaluate new product trials |
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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 managed and evaluated trials for at least one new product, including:* establishing parameters, conditions and requirements for product trial
* establishing, documenting and communicating the procedure for the trial to relevant personnel
* monitoring and evaluating trial outcomes against objectives and set conditions
* documenting all aspects of trial to ensure repeatability and collection of evidence.
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| 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:* structure and processes of developing product trials including:
* project parameters
* constraints
* criteria for evaluating outcomes including:
* clarifying reporting requirements
* reporting formats
* process documentation procedures and requirements to ensure that the process:
* meets trial outcomes
* is consistent with legislative requirements
* is consistent with company policy objectives
* procedures for planning and monitoring a trial process and the factors to be taken into account
* proposed formulations and preferred processing methods to assess constraints and opportunities for improvement, including:
* equipment capability
* typical materials usage
* rates to achieve a given production outcome
* area experts
* systems and procedures for managing work health and safety (WHS), environmental issues and food safety through the trial process
* investigation and process improvement techniques and processes, including:
* techniques to collect data
* techniques to evaluate trial data
* communication processes and strategies to meet the information requirements of all stakeholders
* procedures for planning production targets and timeframes within equipment and process capability
* resources to meet trial schedule, including:
* stock levels
* equipment availability and capacity
* personnel
* storage capacity
* procedures for the development of trial schedules to manage the process
* documentation and appropriate formats, including:
* product specifications
* recipe formulations
* process parameters
* operating procedures
* monitoring procedures for trial progress to identify variances and factors that may need to be adjusted
* problem solving processes as they relate to conducting product trails
* project planning, scheduling and monitoring procedures
* methods of collecting and evaluating trial information, including the role of an evaluation team
* procedures for reporting trial outcomes and related improvement opportunities.
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| 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:
* trial objectives and parameters
* trial products
* specifications:
* new product specifications
* relevant standard operating 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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