



Australian Government

FBPTEC5001 Manage and evaluate new product trials

Release: 1

FBPTEC5001 Manage and evaluate new product trials

Modification History

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

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.

Pre-requisite Unit

Nil

Unit Sector

Technical (TEC)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Establish trial parameters	1.1 Define new product specifications 1.2 Identify production resource requirements 1.3 Establish project budget and timeline 1.4 Ensure trial is of appropriate size to provide reliable process and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	production information, following workplace procedures
2. Prepare for new product trial	2.1 Scale new product recipe or formula to suit trial production 2.2 Identify and confirm raw materials and ingredients, packaging components and consumables, to meet trial requirements 2.3 Identify available and suitable production equipment and safe operating procedures 2.4 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 progress 3.2 Advise operators directly participating in the trial of parameters, roles and responsibilities 3.3 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 outcomes 5.2 Assess resource allocations against plan 5.3 Assess trial product against specifications 5.4 Compare production parameters and operating conditions with scheduled performance

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.5 Identify and investigate significant variances 5.6 Identify and report improvement opportunities

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.

Skill	Description
Writing	Prepare documentation expressing ideas and concepts for the development, evaluation and reporting of product trials; and ensure they are constructed logically, succinctly and accurately
Numeracy	Analyse mathematical information in a range of tasks during the development, costing, scheduling and analysis of product trials
Get the work done	- Gather and analyse data and seek feedback to improve plans and processes - Address complex problems using formal analytical, lateral thinking techniques, experience and knowledge to focus in on trial design parameters

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 Packages Minor changes to Performance Criteria for clarity	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPTEC5001 Manage and evaluate new product trials

Modification History

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

Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of 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.

Knowledge Evidence

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 trials
- 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.

Assessment Conditions

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.

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>