



Australian Government

FBPPPL4002 Plan and coordinate production equipment maintenance

Release: 1

FBPPPL4002 Plan and coordinate production equipment maintenance

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to plan and coordinate maintenance activities for production equipment.

This unit applies to individuals who take responsibility for their own work and coordinate and oversee employees responsible for the maintenance of production equipment.

All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety legislation that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

People, Planning and Logistics (PPL)

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. Identify maintenance requirements according to workplace procedures	1.1 Determine the approach for maintaining production equipment 1.2 Source and assess advice on equipment maintenance requirements according to manufacturers' specifications 1.3 Assess and prioritise special maintenance requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Plan maintenance according to workplace procedures	2.1 Identify and secure resources required to carry out maintenance 2.2 Develop a maintenance schedule to provide reliable equipment performance with minimal disruption to production 2.3 Ensure the maintenance schedule takes account of production schedules, equipment capability, special maintenance requirements, efficient resource utilisation, workplace health and safety requirements, and workplace environmental guidelines 2.4 Record the maintenance schedule in the appropriate workplace format 2.5 Define and communicate responsibilities for implementing the maintenance schedule 2.6 Consult personnel affected by the maintenance program and advise of maintenance process
3. Monitor implementation of the maintenance schedule according to workplace procedures	3.1 Monitor progress of maintenance to identify variance to schedule 3.2 Identify, assess and address unplanned events that could affect the schedule 3.3 Identify and communicate potential failure to meet maintenance deadlines to relevant personnel in a timely manner
4. Contribute to the improvement of equipment reliability	4.1 Review equipment performance information to identify patterns or trends 4.2 Identify factors that affect equipment reliability 4.3 Consult production and maintenance personnel to identify opportunities to improve equipment reliability 4.4 Take action to improve equipment reliability 4.5 Review the maintenance schedule and related programs and procedures to reflect improvements

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
Reading	- Reads and interprets manuals, specifications, and other documentation from a variety of sources and consolidates information to determine maintenance requirements - Analyses and consolidates test results and data from a range of sources, against defined criteria and requirements
Writing	Develops procedural material for a specific audience using clear and industry relevant language in order to convey explicit information, requirements and recommendations
Numeracy	Performs mathematical calculations to analyse maintenance data and scheduling statistics to inform maintenance activities
Oral communication	Uses collaborative and inclusive techniques, including active listening and questioning, and reading of verbal and non-verbal signals to convey and clarify information
Interacts with others	- Uses a range of strategies to establish a sense of connection and build rapport co workers - Elicits feedback from others in order to improve workgroup behaviours and processes
Get the work done	- Contributes to continuous improvement of current work practices by applying principles of analytical and lateral thinking - Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Applies systematic and analytical decision-making processes for complex and non-routine situations - Addresses problems and initiates procedures in response, applying problem-solving processes to determine solutions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPPPL4002 Plan and coordinate production equipment maintenance	FDFPPL4002A Plan and coordinate maintenance	Updated to meet Standards for Training Packages Minor changes to Performance Criteria for clarity	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPPPL4002 Plan and coordinate production equipment maintenance

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 1.0.

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 planned and coordinated maintenance for production equipment, on at least two separate occasions, including:

- obtaining information and planning maintenance requirements for production equipment
- establishing and documenting a maintenance schedule
- coordinating the implementation and maintenance schedule with appropriate personnel
- managing unplanned maintenance issues
- assessing equipment reliability and contributing to improved maintenance schedules and procedures
- managed work health and safety, environmental and food safety requirements and responsibilities associated with maintenance activities.

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:

- maintenance approaches and differences between reactive, preventative and proactive maintenance models, including:
 - reliability centred maintenance (RCM)
 - total productive maintenance (TCM)
- company systems, processes and responsibilities for:
 - collecting equipment condition information
 - analysing information
 - carrying out required servicing and maintenance
- sources of data on equipment performance and maintenance requirements, related recording systems and data analysis tools, including:
 - manufacturer specifications

- equipment capability data
- condition monitoring data
- equipment operation/performance reports and log sheets
- workplace environmental guidelines
- maintenance requirements and scheduling processes, including:
 - production process
 - impact of scheduling on production
 - maintenance activities
 - maintenance priorities
 - effect on related activities, including purchasing and contract management
- factors that influence the reliability of equipment, including:
 - equipment capability
 - equipment/process design
 - operating conditions and practices
- methods used to measure effectiveness of maintenance, including:
 - plant availability
 - cost of maintenance
 - downtime
 - alternate resource utilisation
- work health and safety, environmental and food safety requirements and responsibilities associated with maintenance activities
- relevant personnel and departments to be consulted/notified of maintenance schedule and related amendments, including the information relevant to each group/person
- conditions that can affect achievement of the maintenance schedule, including:
 - unusual or unplanned conditions
 - related options for response to equipment breakdowns/emergencies
- communication skills to consult and communicate with relevant personnel
- recording systems and requirements, including relevant software packages
- process improvement procedures for production equipment
- capacity of maintenance service suppliers to provide required services.

Assessment Conditions

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:
 - production equipment
- specifications:
 - maintenance scheduling system and associated information and communication systems

- relevant standard operating procedures (SOPs)
- workplace information recording systems, requirements and procedures
- access to Work Health and Safety Acts or Occupational Health and Safety Acts, regulations and related industry standards and codes of practice
- workplace environmental requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>