



Australian Government

PPMIND501 Evaluate emerging technologies and processes

Release: 1

PPMIND501 Evaluate emerging technologies and processes

Modification History

Release	Comments
Release 1	This version released with PPM Pulp and Paper Manufacturing Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to research and evaluate emerging technologies and processes in the pulp and paper manufacturing industry and develop strategies to prepare for their potential impact on the organisation.

The unit applies to leaders or managers in the pulp and paper manufacturing industry who are responsible for monitoring and guiding the activities of the organisation, anticipating new or emerging technologies and innovative approaches for the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Pulp and Paper Industry (IND)

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. Research emerging technologies and processes	1.1 Research and review sources of information on emerging technologies and processes for pulp and paper manufacturing 1.2 Assess and document emerging technologies and practices relevant to organisational context and innovation objectives 1.3 Identify legislative requirements and organisational standards applicable to emerging technologies and processes

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. Evaluate impact of emerging technologies and processes	2.1 Evaluate features and functions of emerging technologies and processes to determine advantages and disadvantages relevant to organisational context 2.2 Assess and document potential impacts of emerging technologies and practices on current organisational technologies and processes 2.3 Seek and obtain feedback from organisational representative on assessment of impact of emerging technologies and practices, and incorporate feedback into report
3. Develop strategies to prepare for emerging technologies and processes	3.1 Develop and document strategies to prepare organisation for impacts and barriers of emerging technology and processes 3.2 Identify and document changes to organisational technologies and processes required based on strategies to determine organisational response 3.3 Seek, obtain and incorporate feedback from organisational representative on strategy and organisational response

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
Learning	- Investigate, evaluate and apply information from a range of complex and technical texts to expand own knowledge and to identify current and emerging technologies and processes that are likely to impact the organisation - Identify reliable sources of information from which to gather resources and information
Reading	Interpret and critically analyse complex information from a variety of sources to identify current and emerging technologies and processes
Writing	Develop comprehensive report that integrates information and ideas from a number of sources in a format that uses appropriate structure and clear language

Skill	Description
Oral communication	• Use clear language and industry terminology when discussing ideas and complex information with others within and across the pulp and paper manufacturing industry • Obtain information and opinions of others by listening and questioning

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
PPMIND501 Evaluate emerging technologies and processes	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=12998f8d-d0ac-40bc-a69e-72a600d4fd93>

Assessment Requirements for PPMIND501 Evaluate emerging technologies 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, on one occasion:

- researched and documented purpose, features and applications of emerging pulp and paper manufacturing technologies or processes, relevant to organisational context
- developed strategies to respond to emerging technologies or processes, including:
 - potential organisational opportunities and threats resulting from the emerging technology or process
 - potential impact on current organisational technologies and processes
 - changes required in order to achieve organisational objectives.

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:

- research approaches to identify emerging technologies and practices in pulp and paper manufacturing industry
- innovative advances in pulp and paper manufacturing technology and processes
- context in which organisation operates and how this may impact on selection and use of emerging technologies and processes
- legislative and regulatory impacts on emerging technologies and processes
- methods used to evaluate and develop strategies to prepare for emerging technologies and processes.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- resources, equipment and materials:

- resources used to source and record information on pulp and paper manufacturing technologies and processes.

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

Links

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