



**Australian Government**

# **FPP40110 Certificate IV in Pulping Operations**

**Release 2**

# FPP40110 Certificate IV in Pulping Operations

## Modification History

Release 1.2

Formatting updated - no changes to outcome.

### 23 imported units of competency update d:

- BSBWHS403A replaces BSBOHS402B - Equivalent
- BSBWHS510A replaces BSBOHS405B - Equivalent
- BSBWHS409A replaces BSBOHS406B - Equivalent
- BSBWHS401A replaces BSBOHS407A - Equivalent
- BSBWHS402A replaces BSBOHS408A - Equivalent
- MSS402020A replaces MSACMT220A - Equivalent
- MSS402040A replaces MSACMT240A - Equivalent
- MSS402050A replaces MSACMT250A - Equivalent
- MSS402051A replaces MSACMT251A - Equivalent
- MSS403001A replaces MSACMS400A - Equivalent
- MSS403032A replaces MSACMT432A - Equivalent
- MSS403051A replaces MSACMT451A - Equivalent
- MSS404052A replaces MSACMT452A - Equivalent
- TAEASS301B replaces TAEASS301A - Equivalent
- TAEASS401B replaces TAEASS401A - Equivalent
- TAEASS402B replaces TAEASS402A - Equivalent
- TAEASS403B replaces TAEASS403A - Equivalent
- TAEASS502B replaces TAEASS502A - Equivalent
- TAEASS505A replaces TAAASS501B - Equivalent
- TAEDES502A replaces TAADES502B - Equivalent
- TAETAS501B replaces TAETAS501A - Equivalent
- TLIE4006A replaces TLIE607D - Equivalent
- UEPOPS411B replaces EUPOPS411A - Equivalent

## Description

Not Applicable

## Pathways Information

Not Applicable

## Licensing/Regulatory Information

Not Applicable

## Entry Requirements

The following units of competency must be achieved either before or while undertaking Certificate IV in Pulping Operations

Please note that imported units from other Training Packages are for the purpose of Industry assessment only and that any licensing requirements are to be dealt with through specific Licensing Units, undertaken prior to this qualification and in such a manner as to meet state and territory licensing requirements

If **Group A** Elective is chosen:

FPPREC210A Monitor and control chemical recovery operations

FPPREC320A Prepare and start up chemical recovery operations

FPPREC330A Co-ordinate and implement chemical recovery shutdowns

If **Group B** Elective is chosen:

FPPSTM210A Monitor and control boiler operation

FPPSTM320A Manage steam boiler startup

FPPSTM330A Shut down and bank steam boiler

If **Group C** Elective is chosen:

FPPEPG210A Monitor and control power generation system

FPPEPG320A Manage a power generation system startup

FPPEPG330A Co-ordinate power generation system shutdown

If **Group D** Elective is chosen:

FPPSPR210A Monitor and control stock preparation systems

FPPSPR320A Prepare and start up stock preparation system for production

FPPSPR330A Co-ordinate and implement stock preparation system shutdown

If **Group E** Elective is chosen:

FPPPUL210A Monitor and control pulping operations

FPPPUL250A Store and distribute pulped product

FPPPUL320A Prepare and start up pulping system operations

If **Group F** Elective is chosen:

FPPWPO210A Monitor and control waste paper operations

FPPWPO320A Prepare and start up waste paper operations

FPPWPO330A Co-ordinate and implement waste paper shutdown

## Employability Skills Summary

### EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the employability skills for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that may vary depending on the packaging options.

| <b>Employability Skill</b> | <b>Industry/enterprise requirements for this qualification include:</b>                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication              | <ul style="list-style-type: none"> <li>• Communicate effectively with others when collecting, analysing and presenting workplace data and information</li> <li>• Communicate outcomes of problem solutions to team and appropriate personnel</li> <li>• Read complex text</li> </ul>                                                                                                                                                    |
| Teamwork                   | <ul style="list-style-type: none"> <li>• Assemble team for analysis</li> <li>• Lead and manage team processes</li> <li>• Refer problems to appropriate group or department</li> </ul>                                                                                                                                                                                                                                                   |
| Problem-solving            | <ul style="list-style-type: none"> <li>• Devise appropriate action and solutions to typical presentation and communication problems</li> <li>• Promptly report and/or rectify any identified problems that may arise when collecting, analysing and presenting workplace data and information in accordance with regulatory requirements and workplace procedures</li> <li>• Rectify problems within level of responsibility</li> </ul> |
| Initiative and enterprise  | <ul style="list-style-type: none"> <li>• Identify causes and effects of faults and corrective action on associated processes</li> <li>• Implement contingency plans if required</li> <li>• Modify activities depending on differing operational contingencies, risk situations and environments</li> </ul>                                                                                                                              |
| Planning and organising    | <ul style="list-style-type: none"> <li>• Develop action plan including contingencies</li> <li>• Identify and organise resources to implement action plan</li> <li>• Organise and present processed information in a logical manner</li> </ul>                                                                                                                                                                                           |
| Self-management            | <ul style="list-style-type: none"> <li>• Demonstrate leadership</li> <li>• Interpret and follow operational instructions and prioritise work</li> <li>• Maintain situational awareness in work area</li> </ul>                                                                                                                                                                                                                          |

## EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

| Employability Skill | Industry/enterprise requirements for this qualification include:                                                                                                                                                                                                                                                                                                   |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Learning            | <ul style="list-style-type: none"> <li>Assess available types of problem solving activities/methodologies and determine most appropriate, such as e-learning tools</li> <li>Assist others to identify and resolve operational problems in the workplace</li> <li>Assist team members where required</li> </ul>                                                     |
| Technology          | <ul style="list-style-type: none"> <li>Identify and use required communication and presentation technology</li> <li>Solve systemic problems in the pulp and paper industry, typically involving complex integrated equipment and continuous operations</li> <li>Use electronic and other control systems to control equipment and processes as required</li> </ul> |

## Packaging Rules

### Qualification Notes

Total number of units = 10

2 Core units *plus*

8 Elective units

One elective unit must be selected from a single Industry Specific group (**Groups A-F**)

One elective unit must be selected from *each* of the following Support Electives groups

- Quality
- Numeracy
- OHS
- Sustainability

Remaining electives may be selected from the Supplementary Electives list and can include up to 2 units from an endorsed Training Package or State/Territory accredited course. Elective units must be relevant to the work outcome sought, industry requirements and the qualification level. Units selected must not duplicate each other in content.

|                                                       |                                                             |
|-------------------------------------------------------|-------------------------------------------------------------|
| <b>CORE UNITS</b>                                     |                                                             |
| <b>Unit Code</b>                                      | <b>Unit Name</b>                                            |
| FPPPRS320A                                            | Solve systemic problems in the workplace                    |
| TLIE4006A                                             | Collect, analyse and present workplace data and information |
| <b>ELECTIVE UNITS INDUSTRY SPECIFIC</b>               |                                                             |
| <b>Group A: Chemical recovery operations</b>          |                                                             |
| (co-located in Certificate IV Papermaking Operations) |                                                             |
| FPPREC440A                                            | Troubleshoot and rectify chemical recovery operations       |
| <b>Group B: Steam generation</b>                      |                                                             |
| (co-located in Certificate IV Papermaking Operations) |                                                             |
| FPPSTM440A                                            | Troubleshoot and rectify boiler plant systems               |
| <b>Group C: Electrical power generation</b>           |                                                             |
| (co-located in Certificate IV Papermaking Operations) |                                                             |
| FPPEPG440A                                            | Troubleshoot and rectify power generation system            |
| <b>Group D: Stock preparations operations</b>         |                                                             |
| FPPSPR440A                                            | Troubleshoot and rectify stock preparation systems          |
| <b>Group E: Pulping operations</b>                    |                                                             |
| FPPPUL440A                                            | Troubleshoot and rectify pulping processes                  |
| <b>Group F: Waste paper operations</b>                |                                                             |
| FPPWPO440A                                            | Troubleshoot and rectify waste paper operations             |

|                                              |                                                                  |
|----------------------------------------------|------------------------------------------------------------------|
| <b>Group G: SUPPORT ELECTIVES</b>            |                                                                  |
| <b>Numeracy</b>                              |                                                                  |
| FPPNUM320A                                   | Measure and calculate routine workplace data                     |
| FPPNUM430A                                   | Calculate and analyse production and financial performance       |
| MSS404052A                                   | Apply statistics to operational processes                        |
| <b>OHS</b>                                   |                                                                  |
| FPPOHS320A                                   | Maintain OHS processes                                           |
| FPPOHS420A                                   | Manage OHS processes                                             |
| <b>Quality</b>                               |                                                                  |
| FPPQAS420A                                   | Co-ordinate in-process quality assurance                         |
| MSS402051A                                   | Apply quality standards                                          |
| MSAPMSUP400A                                 | Develop and monitor quality systems                              |
| <b>Sustainability</b>                        |                                                                  |
| FPPSUS210A                                   | Apply sustainable work practices/policies                        |
| MSACMT270A                                   | Use sustainable energy practices                                 |
| MSACMT271A                                   | Use sustainable environmental practices                          |
| MSAENV472B                                   | Implement and monitor environmentally sustainable work practices |
| <b>Group H: SUPPLEMENTARY ELECTIVES</b>      |                                                                  |
| <b>Computers / process control equipment</b> |                                                                  |
| FPPCSK310A                                   | Operate process control equipment                                |
| <b>Emergency procedures / safety</b>         |                                                                  |
| FPPOHS410A                                   | Identify, assess and control OHS risk in own work                |
| BSBOHS401B                                   | Contribute to the implementation of a systematic                 |

|                                 |                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------|
|                                 | approach to managing OHS                                                                     |
| BSBWHS403A                      | Contribute to implementing and maintaining WHS consultation and participation processes      |
| BSBOHS403B                      | Identify hazards and assess OHS risks                                                        |
| BSBOHS404B                      | Contribute to the implementation of strategies to control OHS risk                           |
| BSBWHS510A                      | Contribute to the implementing emergency procedures                                          |
| BSBWHS409A                      | Assist with workplace monitoring processes                                                   |
| BSBWHS401A                      | Implement and monitor WHS policies, procedures and programs to meet legislative requirements |
| BSBWHS402A                      | Assist with compliance with WHS laws                                                         |
| MSAPMOHS110A                    | Follow emergency response procedures                                                         |
| <b>Environmental monitoring</b> |                                                                                              |
| FPPENV320A                      | Monitor and control environmental hazards                                                    |
| <b>First aid</b>                |                                                                                              |
| MSAPMOHS220A                    | Provide initial first aid response                                                           |
| <b>Planning and organising</b>  |                                                                                              |
| FPPPLN420A                      | Plan a complex activity                                                                      |
| BSBADM405B                      | Organise meetings                                                                            |
| MEM14005A                       | Plan a complete activity                                                                     |
| MEM30020A                       | Develop and manage a plan for a simple manufacturing related project                         |
| PSPPM402B                       | Manage simple projects                                                                       |
| <b>Water services</b>           |                                                                                              |
| FPPWAS340A                      | Troubleshoot and rectify water systems (unit has pre-requisite)                              |
| <b>Business support</b>         |                                                                                              |

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| FPPQAS430A                     | Oversee quality assurance process                                  |
| BSBCMM401A                     | Make a presentation                                                |
| BSBFLM305C                     | Support operational plan                                           |
| BSBFLM309C                     | Support continuous improvement systems and processes               |
| BSBFLM311C                     | Support a workplace learning environment                           |
| BSBREL401A                     | Establish networks                                                 |
| BSBRSK401A                     | Identify risk and apply risk management processes                  |
| BSBWOR401A                     | Establish effective workplace relationships                        |
| BSBWOR402A                     | Promote team effectiveness                                         |
| BSBWRK402A                     | Empower workers                                                    |
| BSBWRK403A                     | Communicate with workers                                           |
| BSBWRK404A                     | Promote equality of opportunity and fair treatment for all workers |
| BSBWRK406A                     | Participate in the bargaining process                              |
| BSBWRK407A                     | Provide advice to union members                                    |
| BSBWRK408A                     | Undertake negotiations                                             |
| BSBWRK409A                     | Prepare for and participate in dispute resolution                  |
| MSAPMSUP382A                   | Provide coaching/mentoring in the workplace                        |
| <b>Training and assessment</b> |                                                                    |
| TAEASS505A                     | Lead and coordinate assessment systems and services                |
| TAEDES502B                     | Design and develop learning resources                              |
| TAEASS301B                     | Contribute to assessment                                           |
| TAEASS502B                     | Develop assessment tools                                           |
| TAEDEL401A                     | Plan, organise and deliver group-based delivery                    |
| TAEDEL402A                     | Plan, organise and facilitate learning in the workplace            |

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| TAEDEL404A                   | Mentor in the workplace                                           |
| TAEDES401A                   | Design and develop learning programs                              |
| TAEDES402A                   | Use training packages and accredited courses to meet client needs |
| TAETAS501B                   | Undertake organisational training needs analysis                  |
| TAEASS401B                   | Plan assessment activities and processes                          |
| TAEASS402B                   | Assess competence                                                 |
| TAEASS403B                   | Participate in assessment validation                              |
| <b>Laboratory operations</b> |                                                                   |
| MSL904001A                   | Perform standard calibration                                      |
| <b>Production support</b>    |                                                                   |
| FPPPRV320A                   | Co-ordinate and direct clothing changes                           |
| MEM18011C                    | Shut down and isolate machines/equipment                          |
| MSACMC411A                   | Lead a competitive manufacturing team                             |
| MSS403001A                   | Implement a competitive systems and practices                     |
| MSACMS401A                   | Ensure process improvements are sustained                         |
| MSS402020A                   | Apply quick changeover procedures                                 |
| MSS402040A                   | Apply 5S procedures                                               |
| MSS402050A                   | Monitor process capability                                        |
| MSS403032A                   | Analyse manual handling processes                                 |
| MSACMT440A                   | Lead 5S in a manufacturing environment                            |
| MSS403051A                   | Mistake proof an operational process                              |
| <b>Turbine operations</b>    |                                                                   |
| UEPOPS341A                   | Shut down a steam turbine                                         |
| UEPOPS411B                   | Run up a steam turbine                                            |

