



Australian Government

Department of Education, Employment and Workplace Relations

PMC552071B Operate wet and dry end equipment

Revision Number: 1

PMC552071B Operate wet and dry end equipment

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency covers the operation of wet and dry end equipment in the production of plasterboard, cornice and fibre cement sheet. It involves operating and monitoring equipment, undertaking quality checks, preparing roll-ups and undertaking minor maintenance on equipment.
------------------------	---

Application of the Unit

Application of the unit	<p>This unit of competency applies to operators who are responsible for operating wet and dry end equipment within the manufactured mineral products industry.</p> <p>This unit of competency includes the operation of items of equipment where the operator is expected to demonstrate an understanding of the process and the equipment operation. The processes covered by this unit include:</p> <ul style="list-style-type: none">• fibre cement board• plaster board• machine cornices <p>This competency is typically performed by operators and team leaders working either independently or as part of a work team. At all times they would be liaising with other members of the team.</p>
--------------------------------	---

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
-----------------------------	--

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare equipment for production	1.1. Set up line in accordance with work instructions 1.2. Conduct equipment pre-startup procedure and visual checks according to enterprise procedure check list 1.3. Set up and configure equipment startup functions to comply with standard operating procedures 1.4. Ensure equipment is safe to use
2. Operate wet end/dry end equipment	2.1. Conduct pre-run checks and make adjustments as required 2.2. Start up equipment in accordance with work instructions 2.3. Monitor equipment conditions and adjust to ensure correct product quality 2.4. Ensure equipment is operated in accordance with enterprise procedures 2.5. Record production data as required
3. Monitor and record operation	3.1. Monitor equipment performance in accordance with work instructions and manufacturer's specifications 3.2. Monitor non-conforming product against customer specifications 3.3. Adjust and control equipment to ensure correct product quality 3.4. Complete final inspection checks if required 3.5. Complete appropriate records and logs
4. Rectify routine problems	4.1. Identify the range of faults that can occur during the operation 4.2. Determine and rectify fault causes in accordance with established enterprise procedures/work instructions 4.3. Ensure appropriate records are maintained to meet procedures/work instructions 4.4. Identify non-routine problems and report to designated person
5. Shut down equipment	5.1. Ensure line is clear of all product and left in a safe manner for shutdown 5.2. Determine and rectify fault causes in accordance with procedures/work instructions 5.3. Ensure work area is clean 5.4. Complete appropriate records and logs

ELEMENT	PERFORMANCE CRITERIA
	5.5.Shut down equipment in an emergency situation
6. Prepare equipment for cleaning and maintenance	6.1.Isolate equipment in accordance with work instructions 6.2.Remove any remaining product or materials safely 6.3.Make sure the area is clear and safe for cleaning or maintenance
7. Control hazards	7.1.Identify hazards from the job to be done 7.2.Identify other hazards in the work area 7.3.Assess the risks arising from those hazards 7.4.Implement measures to control those risks in line with procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Skills required for this unit include the ability to:

- recognising process conditions which will lead to out of specification production and taking appropriate action
- implementing enterprise's standard procedures and work instructions and relevant regulatory requirements within appropriate time constraints and in a manner relevant to the operation of the equipment
- reading and numeracy to interpret workplace documents and technical information

Required knowledge

Required knowledge includes:

- composition and nature of products being manufactured
- startup and shutdown processes
- construction and limitations of the equipment
- drying profiles
- identification of required adjustments to keep process within specifications
- identification of out of specification situations
- distinguish between causes of faults such as:
 - raw material
 - equipment adjustment setup
 - maintenance issues

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

The unit will be assessed in as holistic a manner as is practical and may be integrated with the assessment of other relevant units of competency.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that the forming equipment be understood and that the importance of critical material properties, settings and readings is known. Competence must be demonstrated in the ability to recognise and analyse potential situations requiring action and then in implementing appropriate corrective action.

Consistent performance should be demonstrated. In particular look to see that:

- process and equipment are operated in accordance with work instructions and process parameters
- quality is monitored to minimise wastage
- drying profiles/operations are maintained
- startup and shutdown occurs first time
- signals and alarms are responded to immediately
- process measurements and tests are continually made, observed and interpreted
- all OHS requirements are followed.

Competence must be demonstrated in the operation of all ancillary equipment to the level required for this unit of competency.

Context of and specific resources for assessment

Assessment will require access to an operating plant over an extended period of time, or a suitable method of gathering evidence of operating ability over a range of situations.

Assessment will occur over a range of situations which will include disruptions to normal, smooth operation.

Simulation or case studies/scenarios may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual plant and will include 'walk-throughs' of the relevant competency components. A bank of scenarios/case studies/what ifs and questions will be required to probe

EVIDENCE GUIDE	
	the reasoning behind observable actions.
Method of assessment	<p>Individual enterprises may choose to add prerequisites and co-requisites relevant to their processes.</p> <p>In all plants it may be appropriate to assess this unit concurrently with relevant teamwork and communication units.</p>
Guidance information for assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Procedures

All operations are performed in accordance with standard procedures and work instructions

Tools and equipment

Tools and equipment may include:

- drier
- cooler
- unloader
- bridge conveyor
- split and reject table
- belts
- booker system table
- hand tools
- safety clothing and equipment

Occupational health and safety (OHS)

All operations are subject to stringent OHS requirements and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and OHS requirements, the OHS requirements take precedence

Unit Sector(s)

Unit sector

Operational/technical

Competency field

Competency field

Co-requisite units

Co-requisite units		