

PMC552070B Operate forming equipment

Revision Number: 1



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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency covers the operation of forming equipment in the production of plasterboard, cornice and fibre cement sheet manufacture. It involves operating and monitoring forming equipment, making adjustments in accordance with work instructions, undertaking routine quality checks and undertaking minor maintenance on equipment.
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Application of the Unit

Application of the unit	This unit of competency applies to operators who are responsible for operating forming equipment within the manufactured mineral products industry.
	This competency is typically performed by operators working either independently or as part of a work team. At all times they would be liaising with other members of the team.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	

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Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

essential outcomes of a unit of competency. demonstrate achi italicised text is a required skills ar	teria describe the performance needed to ievement of the element. Where bold used, further information is detailed in the nd knowledge section and the range asment of performance is to be consistent to guide.
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Elements and Performance Criteria

ELEM	IENT	PERFORMANCE CRITERIA
equ	pare forming hipment for duction	1.1.Set up line in accordance with work instructions1.2.Determine product formation requirements from the production program
		1.3. Conduct equipment pre-startup procedure and visual checks according to enterprise procedure check list
		1.4. Ensure required change parts are in place
		1.5.Set up and configure equipment startup functions to comply with standard operating procedures
		1.6. Ensure equipment is safe to use
	erate forming nipment	2.1. Start up equipment in accordance with work instructions
		2.2. Operate equipment to produce product of required shape, dimensions and consistency
		2.3. Monitor equipment conditions and adjust to ensure correct product quality
		2.4. Monitor and adjust material properties as required
		2.5. Record production data as required
	ctify routine blems	3.1. Identify the range of faults that can occur during the operation
		3.2. Determine and rectify fault causes by established enterprise procedures/work instructions
		3.3. Identify and rectify equipment failure causes in accordance with accordance with established enterprise procedures
		3.4. Identify non-routine problems and report to designated person
	ıt down iipment	4.1.Ensure line is clear of all product and left in a safe manner for startup
		4.2. Determine and rectify fault causes in accordance with procedures/work instructions
		4.3. Clean work area
		4.4. Complete appropriate records and logs
		4.5. Shut down equipment in an emergency situation
for	pare equipment cleaning and	5.1. Isolate equipment in accordance with work instructions
ma	intenance	5.2. Remove any remaining product or materials safely
		5.3. Ensure the area is clear and safe for cleaning or maintenance

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ELEMENT	PERFORMANCE CRITERIA
6. Control hazards	6.1. Identify hazards from the job to be done 6.2. Identify other hazards in the work area
	6.3. Assess the risks arising from those hazards6.4. 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

Required skills include:

- recognising process conditions which will lead to out of specification production and taking appropriate action
- implementing the 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
- 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

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Evidence Guide

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Overview of assessment

competency in this unit

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.

Critical aspects for assessment and evidence required to demonstrate

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.

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
- startup and shutdown occur 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 the reasoning behind observable actions.

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EVIDENCE GUIDE	
Method of assessment	Individual enterprises may choose to add prerequisites and co-requisites relevant to their processes.
	In all plants it may be appropriate to assess this unit concurrently with relevant teamwork and communication units.
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.

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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	
Operations	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: • fibre cement board • plaster board • machine cornices	
Tools and equipment	Tools and equipment may include: curing ovens transfer machines scoring plasterboard liner unwinders/burners setting belts forming plates/dams mixers pizza cutters/blades 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)

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Unit sector	Operational/technical
Competency field	
Competency field	
Co-requisite units	,
Co-requisite units	

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