



Australian Government

Department of Education, Employment and Workplace Relations

PMBPROD295B Operate composite sheeting equipment

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor

This competency covers the operation of composite sheet manufacturing equipment and the resolving of routine problems to procedure.

Application of the Unit

Application of this unit

This competency applies to operators who are required to undertake the routine operation of composite sheeting equipment. It is typically performed by operators working either independently or as part of a work team.

The operator will:

- check product for quality and conformity to specifications
- check raw material feed
- notice any problems and take required action (e.g. reporting)
- deal with non-conforming products, waste and scrap
- complete logs and reports.

They may record key variables such as machine conditions and production rate and reason for interruption.

This unit does not include:

- packing of product - see *MSASUP204A Pack products or materials*
- finishing of product - see *PMBPROD281 Finish composite products*
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

This unit has **no** prerequisites.

Employability Skills Information

Employability Skills

The required outcomes described in this unit contain applicable Employability Skills. The Employability Skills Summary of the qualification(s) in which this unit is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

ELEMENT	PERFORMANCE CRITERIA
Elements describe the essential outcomes of a unit of competency	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT ELEMENT	PERFORMANCE CRITERIA Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.
1. Check work requirements.	1.1 Identify work requirements from production plan or request. 1.2 Check product, materials and equipment meet requirements for job(s). 1.3 Recognise requirements which may not be in accordance with usual practice. 1.4 Ask questions of appropriate person to confirm non standard job specifications. 1.5 Ensure housekeeping is to requirements. 1.6 Identify hazards associated with the job and take appropriate action. 1.7 Perform other pre-operational checks in accordance with procedures.
2. Start up composite sheeting equipment to procedures.	2.1 Conduct pre-start checks on equipment. 2.2 Check safety equipment is in position and working. 2.3 Check moulds, closures and fittings to procedures. 2.4 Check moulds for cracks, chips, marks and cleanliness. 2.5 Check materials, including fibres, resins, additives and release agents are correct. 2.6 Start up composites sheeting machine.
3. Operate equipment to procedures.	3.1 Check process is operating within required limits. 3.2 Check product is in specification and to required quality standard. 3.3 Ensure product is consistently ready for next operation. 3.4 Maintain supply of materials as required. 3.5 Complete logs and records as required. 3.6 Collect and segregate scrap, waste and other materials, as required. 3.7 Keep equipment and work area clean. 3.8 Shut down as required.
4. Respond to routine	4.1 Recognise known faults that occur during the

ELEMENT	PERFORMANCE CRITERIA
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problems in accordance with procedures.	operation. 4.2 Identify and take action on causes of routine faults. 4.3 Log problems as required. 4.4 Identify non-routine problems and report to designated person.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level required for this unit.

Application of knowledge of the materials, equipment and process sufficient to recognise out of specification products, process problems and materials faults.

Knowledge and ability to implement organization procedures and relevant regulatory requirements, within appropriate time constraints and work standards.

Application of the knowledge of managing risks using the hierarchy of controls applied to the composite sheeting process. Application of approved hazard control and safety procedures and the use of PPE in relation to handling materials, equipment operation and cleanup.

Knowledge of and skills in the operation of composite sheeting process and equipment sufficient for consistent production of quality products including:

- production workflow sequences and materials demand
- reasons for checking process control panels and reporting readings which do not conform to the work instructions
- accurately monitoring equipment operation and product quality
- potential effects of variations in raw materials and equipment operation in relation to quality of product
- processing behaviour of polymers and the role of additives
- operation of composite sheeting equipment and components
- correct selection and use of equipment, materials, processes and procedures
- waste management and importance of reusing non-conforming products wherever possible
- the effect of unauthorised or emergency shutdown in relation to safety and production requirements
- factors which may affect product quality or production output and appropriate remedies.

Competence also includes the ability to:

- plan own work, including predicting consequences and identifying improvements
- identify when the operator is able to rectify faults, when assistance is required and who is the appropriate source for assistance
- identify and describe own role and role of others involved directly in the process.

Language, literacy and numeracy requirements

This unit requires the ability to read and interpret typical product specifications, job sheets, procedures, material labels, basic machine control panels, and safety information as provided to operators.

Writing is required to the level of completing workplace forms.

Basic numeracy is required, eg to determine how many 2 kg, 3 kg and 5 kg bags are needed to make up a requirement for 50 kg.

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, the range statement and the assessment guidelines for this training package.

Overview of assessment

A holistic approach should be taken to the assessment.

Assessors must be satisfied that the person can consistently perform the unit as a whole, as defined by the Elements, Performance Criteria and skills and knowledge.

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

It is essential that competence is demonstrated in the knowledge and skills defined in this unit. These may include the ability to:

- apply the required skills and knowledge to operate a composite sheeting machine
- apply approved procedures.

Consistent performance should be demonstrated. For example, look to see that:

- composite sheeting production standards are met consistently
- all safety procedures are followed.

Assessment method and context

Assessment will occur on industrial composite sheeting machine and will be undertaken in a work-like environment.

Competence in this unit may be assessed:

- by using an appropriate composite sheeting machine requiring demonstration of operation, and start/stop procedures
- in a situation allowing for the generation of evidence of the ability to respond to problems
 - by using a suitable simulation and/or a range of case studies/scenarios
 - through a combination of these techniques.

In all cases it is expected that practical assessment will be combined with targeted questioning to assess the underpinning knowledge and theoretical assessment will be combined with appropriate practical/simulation or similar assessment. Assessors need to be aware of any cultural issues that may affect responses to questions.

Assessment processes and techniques must be culturally appropriate and appropriate to the oracy, language and literacy capacity of the assessee and the work being performed.

Specific resources for assessment

This section should be read in conjunction with the Range Statement for this unit of competency. Resources required include suitable access to an operating plant or equipment that allows for appropriate and realistic simulation. A bank of case studies/scenarios and questions will also be required to the extent that they form part of the assessment method. Questioning may take place either in the workplace, or in an adjacent, quiet facility such as an office or lunchroom. No other special resources are required.

Access must be provided to appropriate learning and/or assessment support when required. Where applicable, physical resources should include equipment modified for people with disabilities.

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. Add any 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.

Where reference is made to industry codes of practice, and/or Australian/international standards, the latest version must be used.

Context

This competency applies to the all composite sheeting operations within the plastics industry. It includes the operation of all relevant additional equipment where that equipment is integral to the composite sheeting process.

Procedures

All operations are performed in accordance with procedures.

Procedures include all relevant workplace procedures, work instructions, temporary instructions and relevant industry and government codes and standards.

Tools and equipment

This unit of competency includes use of equipment and tools such as:

- composite sheeting machine
- components of composite sheeting equipment such as profiling and compaction rollers, formers
- additional equipment (eg curing equipment)
- controller, such as PLC if fitted
- basic hand tools
- material loading equipment used for loading of raw materials
- relevant personal protective equipment.

Hazards

Typical hazards include:

- spills
- dusts/vapours
- slip and fall
- temperature
- hazardous substances
- moving equipment
- manual handling hazards.

Problems

Respond to routine problems means 'apply known solutions to a limited range of predictable problems'. Typical process and product problems may include:

- equipment malfunction
- variations in process conditions
- variations in materials or contamination of materials
- wrong raw materials/additives
- profiling rollers damage
- routine product faults.
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Unit Sector(s)

Not applicable.