



Australian Government

Department of Education, Employment and Workplace Relations

LMFFL2108A Select, operate and maintain shot blasting equipment

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to select, operate and maintain shot blasting equipment in applications relating to floor preparation.
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Application of the Unit

Application of the unit	This unit supports the attainment of skills and knowledge required for competent workplace performance in the wide variety of sub-floor preparation operations. The competency applies to an on site environment and involves application of skills and knowledge at a sub-trade worker level. These skills and knowledge are to be used within the scope of the individual's job and authority.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify shot blasting equipment	1.1. Applicable legislative, OHS and organisational requirements relevant to the use of shot blasting equipment, are verified and complied with 1.2. Types of shot blasting equipment and their functions are identified from relevant information sources 1.3. Instructions and/or plans are read and interpreted to identify the process required to complete work tasks 1.4. Sources of power supply are recognised
2. Shot blasting equipment	2.1. Shot blasting equipment and shot size are selected consistent with the needs of the job 2.2. Shot blasting equipment is checked for serviceability and safety and any faults are correct or processed for repair
3. Clean and prepare sub-floor	3.1. Appropriate personal protective equipment is selected, correctly fitted and used 3.2. Fittings and fixtures are removed from the sub-floor 3.3. Sub-floor is cleared of loose debris and dirt and cleaned
4. Shot blast the floor	4.1. Work sequence and starting point are selected 4.2. Perimeter is shot blasted using light equipment and appropriate cutter 4.3. Main area is shot blasted to the required standard using the most appropriate available equipment in accordance with the manufacturer specification 4.4. Floor area is cleaned, inspected and re-worked as required
5. Clean up work area and tools	5.1. All tools are cleaned, maintained and stored 5.2. Equipment is cleaned, maintained and stored 5.3. Work area is cleared and waste removed

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of faults and problems
- collect and understand information related to the use and maintenance of shot blasting equipment
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity
- use pre-checking and inspection techniques to anticipate shot blasting problems to avoid re-work and wastage
- recognise and respond to circumstances outside instructions or personal competence
- plan and organize activities, including the preparation and layout of the worksite and the obtaining of tools
- use mathematical ideas and techniques to correctly complete measurements and estimate other material requirements
- clarify and confirm work instructions
- plan work within given task parameters
- accept responsibility for given tasks
- set, monitor and satisfy personal work goals
- satisfy the competency requirements for the job
- maintain current knowledge of:
 - tools and materials
 - installation techniques
- seek learning opportunities
- use workplace technology related to the use and operator maintenance of shot blasters and associated materials

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to shot blasting
- Standards including AS/NZS 2455 and AS 1884 (1985)
- organisational and site standards, requirements, policies and procedures for the use of shot blasting equipment
- types of shot blasters and procedures for their safe use, operation and maintenance
- shot blaster attachments, their uses, limitations and maintenance requirements
- characteristics, uses and limitations of the available shot sizes
- environmental protection requirements
- established communication channels and protocols

REQUIRED SKILLS AND KNOWLEDGE

- problem identification and resolution

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.

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

- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for operating and maintaining shot blasting equipment
- Apply safe handling practices for equipment, products and materials
- Adopt and carry out correct procedures prior to and during use of the shot blasting equipment prescribed above in the Range Statement
- Follow work instructions, operating procedures and inspection practices to:
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
 - minimise the risk of injury to self and others
- Shot blast a minimum of two concrete sub-floors to the relevant Australian Standard
- Complete operator maintenance on shot blasting equipment
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

Context of, and specific resources for assessment

- The application of competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - access to shot blasting equipment and shot
 - access to manufacturer/user instructions and/or manuals

EVIDENCE GUIDE	
	a reasonable shot blasting requirement
Method of assessment	Assessment must satisfy the endorsed assessment guidelines of the Furnishing Industry Training Package Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application Assessment may be applied under project related conditions (real or simulated) and require evidence of process Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances Assessment may be in conjunction with assessment of other related units of competency

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.

Legislative requirements

- are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OHS, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care and heritage

OHS requirements

- are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures. Requirements may include but not be limited to the use of personal protective equipment and clothing, fire fighting equipment, First Aid equipment, hazard and risk control and elimination, control of hazardous materials and substances, manual handling, including lifting and carrying

Organisational requirements

- may include but not be limited to legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)

Types of shot blasting equipment

- share technology and differ only in size and capacity

Instructions

- Shot blaster manufacturer specifications and operational procedures
- Workplace procedures relating to OHS, tool

RANGE STATEMENT	
	handling and operation, reporting and communication • Work instructions, including job sheets, plans, drawings and designs
Sources of power supply	• may be electrical (single or 3-phase) and gas
Attachments	• are to include air cleaning/vacuum systems
Fault reporting	• in the operation of blasting equipment may be verbal or written
Personal protective equipment	• is to include that prescribed under legislation, regulation and enterprise policies and practices
Fittings and fixtures	• include nails, door stops, gripper strips, metal mouldings and debris
Work sequence	• is likely to cover inspect, select equipment and accessories, clean sub-floor, shot blasting, cleaning and rework
Standards	• AS/NZS 2455 and AS 1884 (1985)

Unit Sector(s)

Unit sector	Flooring Technology
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Competency field

Competency field	Floor Preparation
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Co-requisite units

Co-requisite units		

