Australian Government
Department of Education, Employment and Workplace Relations

LMFGG2006C Move single glass sheets by mechanical means

Release: 1

INDUSTRY SKILLS COUNCILS
Creating Australia's Future

LMFGG2006C Move single glass sheets by mechanical means

Modification History

Updated format, range now includes loading and unloading from trucks and skips, revised Evidence Guide. Outcome equivalent

Unit Descriptor

This unit of competency covers the skills and knowledge required to move single sheets of flat glass by mechanical means.

Application of the Unit

This unit covers work involving the movement of glass sheets by mechanical means where individuals demonstrate some discretion, judgement and problem solving in the planning and conduct of the operation. Work is generally performed individually or in a team environment, with general supervision and may be performed in workplaces which are involved in the manufacture, processing and/or installation of sheet glass.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

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

1	Prepare for task	1.1	***Work requirements*** in the form of type and quantity of ***glass*** to be relocated are identified from work instructions
		1.2	Occupational health and safety (OHS) requirements for movement of glass sheets by mechanical means, including ***personal protective equipment***, are observed throughout the work
		1.3	Glass sheets to be moved are identified and weight is estimated or calculated and ***safe movement requirements*** applied
		1.4	Appropriate ***mechanical handling equipment***, and ***tools and equipment*** are identified
		1.5	Risks arising from the required lifting to self, others, material and equipment are identified, load carrying, set down or movement of the glass
		1.6	Equipment and controls, including emergency stops and guards, are identified and checked for safe operation with any damaged or worn parts reported to appropriate personnel
		1.7	Glass is checked for imperfections and damage prior to movement
2	Plan glass movement	2.1	Locations for glass storage are identified and routes to be followed determined
		2.2	Required clearances are compared to available space and adjustments made
		2.3	Process for relocating glass is planned, including predicting and planning for potential difficulties
		2.4	Proposed process is checked against advisory standards and workplace procedures for compliance

3	Relocate glass	3.1	Equipment is operated in accordance with approved advisory standards, manufacturer instructions, workplace procedures and OHS requirements
		3.2	Planned process and route are followed and glass is relocated without damage to material, personnel or equipment
		3.3	Glass is labelled and stored following workplace procedures ensuring there are no projections
		3.4	Relocation is checked to see that it meets work requirements, and any differences reported
4	Complete work	4.1	Waste and scrap material is removed for disposal or recycling, as required
		4.2	Work area is cleaned and rubbish disposed of, as appropriate
		4.3	Handling equipment is cleaned, maintained and stored according to workplace procedures
		4.4	Workplace documentation is completed, as required

Required Skills and Knowledge

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

Required skills include:

- collecting, organising and understanding information related to work orders, basic plans and safety procedures
- using communication skills to the level required to confirm work requirements and specifications; communicate effectively regarding work requirements with supervisors, other workers and customers; report work outcomes and problems; and relate to people from a range of social, cultural and ethnic backgrounds, and of varying physical and mental abilities
- using literacy skills to the level required to understand information related to work orders, including common industry terminology, plans and safety procedures; prepare reports; and interpret technical information and specifications
- planning and organising activities, including the preparation and layout of the work area, and the obtaining of equipment and materials to avoid any backtracking, workflow interruptions or wastage
- working with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- using mathematical ideas and techniques to correctly complete measurements, calculate work requirements and assemble required materials
- using pre-checking and inspection techniques to plan work, avoid re-working and unnecessary effort, and plan routes, including the avoidance/overcoming of obstacles/hazards
- using workplace technology related to the relocation of glass sheets by mechanical means

Required knowledge includes:

- the qualities and characteristics of glass, including hazards and handling requirements, and the behaviour of glass sheets when lifted and moved
- workflow requirements in relation to the movement of glass by mechanical means
- principles, requirements and techniques of moving glass sheets by mechanical means
- workplace safety system requirements related to the moving of glass sheets by mechanical means
- capabilities, operating processes and procedures of mechanical handling equipment
- modifying activities to cater for variations in workplace contexts and environment

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

Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently:
	• interpret work order/job instructions and locate and apply relevant information to plan the relocation of glass using mechanical means
	• select and use appropriate equipment and techniques to relocate glass sheets
	• apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
	• follow work instructions, operating procedures and inspection practices to:
	  • minimise the risk of injury to self and others
	  • prevent damage to goods, equipment and products
	  • maintain required production output and product quality
	• as a minimum:
	  • identify personal protective safety apparel and safety regulations for overhead lifting
	  • identify and safely using gantry cranes up to 4.9 SWL, including relevant standards and regulations
	  • identify and use vacuum rigs or scissor grabs for lifting single glass sheets
	  • follow pre-safety and inspection procedures
	  • calculate weight, and safely load and secure glass
	  • relocate single sheets of glass by vacuum or scissor grabs up to 4.5 m2 (170 kg)
	• work effectively with others.

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 Standard requirements. The following resources should be made available: • mechanical glass handling equipment • glass sheet to be relocated • workplace operating procedures • personal protection equipment • an appropriate work area.
Method of assessment	Assessment must satisfy the endorsed Assessment Guidelines of the LMF02 Furnishing Industry Training Package. Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge. Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure 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 units of competency.
Guidance information for assessment	

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.

Work requirements include:	• workplace procedures relating to the handing and movement of glass • work instructions, including job sheets • safety standards, including personal protective equipment, OHS regulations and enterprise requirements • manufacturer instructions for the use of equipment and materials
Glass **may include, but is not limited to:**	• annealed • laminated • toughened • tinted • heat reflecting and mirrors

Personal protective equipment **includes:**	• that prescribed under legislation, regulation and enterprise policies and practices, and may include:
	  • gauntlets
	  • gloves
	  • safety glasses
	  • hard hats
	  • safety footwear
	  • aprons and overalls

Safe movement requirements **may include:**	• complying with relevant OHS regulations • determining the safe working load limit (WLL) • using safe working load (SWL) limit tables
Mechanical handling equipment **is to include, but is not limited to:**	• gantry cranes up to 4.9 SWL, and may include: • scissor or vacuum grabs
Tools and equipment **are to include:**	• air and tilt tables • A-frames and stillage racks

Unit Sector(s)

Glass and glazing

Custom Content Section

Not applicable.