



Australian Government

Department of Education, Employment and Workplace Relations

LMFGG2011A Use, handle and store glass and glazing products and consumables

Release: 1

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Modification History

New unit.

Unit Descriptor

This unit of competency covers the skills and knowledge required to accurately identify glass, glazing product and consumable characteristics and limitations to handle, use and store them safely and effectively

Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in use and storage of glass and glazing products and consumables. It applies to a range of job roles in the glass and glazing industry and may be performed individually or in a team environment.

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

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| 1 | Identify glass types, glazing products and consumables | <p>1.1 Applicable <i>occupational health and safety (OHS)</i>, <i>legislative</i> and <i>organisational requirements</i> relevant to glass and glazing work are verified and complied with</p> <p>1.2 The characteristics of <i>glass types</i> and <i>glazing products</i> are identified to determine their use and suitability for a range of glazing work</p> <p>1.3 Types and quantities of <i>glazing consumables</i> required for a glazing job are identified from plans or work instructions</p> |
| 2 | Prepare to use glass and glazing products | <p>2.1 Work requirements for glass and glazing work are determined in a logical order to suit the job</p> <p>2.2 Common glass and glazing tools, equipment, personal protective equipment, and their use in glass and glazing work are identified</p> <p>2.3 Glass to match work requirements is checked for type, size and imperfections</p> <p>2.4 Glazing products are selected in accordance with customer orders and Australian Standards</p> <p>2.5 Defective glazing products are reported for repair or replacement in accordance with workplace procedures</p> |
| 3 | Handle and use glass and glazing consumables | <p>3.1 Consumables are selected and checked prior to use to ensure they are appropriate for the planned glazing work</p> <p>3.2 Consumables are handled and used according to workplace procedures, <i>manufacturer instructions</i> and industry practice</p> <p>3.3 Any <i>problems</i> occurring when using consumables are identified, rectified and/or reported, where appropriate</p> |
| 4 | Store glass and glazing consumables | <p>4.1 Unused glass, glazing products and consumables are assembled after completion of the job, checked for reusability, cleaned and stored safely and effectively</p> <p>4.2 Waste and scrap material are removed for disposal or</p> |

recycling, as required

- 4.3 Work area is cleaned and rubbish disposed of, as appropriate

Required Skills and Knowledge

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

Required skills include:

- collecting, organising and understanding materials technology and information related to glass types, glazing products and consumables
- 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
- maintaining quality records related to glass, glazing product and consumables use
- working with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity
- identifying, anticipating and responding to faults in glass, glazing products and consumables
- recognising and responding to circumstances outside instructions or personal competence
- planning and organising activities, including the preparation and layout of own worksite, and the obtaining and use of tools and materials to avoid any backtracking, work flow interruptions or wastage
- using mathematical ideas and techniques to correctly complete measurements, calculate area and volume, and estimate work and glass, glazing products and consumables requirements
- clarifying and confirming work instructions
- planning own work within the given task parameters
- accepting responsibility for given tasks
- setting, monitoring and satisfying personal work goals
- maintaining current knowledge of common tools and equipment used in glass handling and glazing work
- maintaining current knowledge of glass, glazing products and consumables
- seeking learning opportunities
- using the correct workplace technology related to glass, glazing products and consumables

Required knowledge includes:

- state or territory OHS legislation, regulations, standards, codes of practice, organisational and site standards, requirements, and policies and procedures relevant to glass, glazing product and consumables handling, storage and use
- types of glass, glazing products and glass fixing materials used in the glazing industry, including their correct terminology, characteristics, properties, uses and limitations
- environmental protection requirements relating to the disposal of waste material

- established communication channels and protocols
- problem identification and resolution for glass, glazing products and consumables
- storage systems and labelling for glass, glazing products and consumables
- procedures for the recording, reporting and maintenance of workplace records and information
- appropriate mathematical procedures for estimation of glass, glazing product and consumables use

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	<p>Assessors must be satisfied that the candidate can competently and consistently:</p> <ul style="list-style-type: none"> • read and interpret a work/job specification • identify a range of glass types, their characteristics, uses and limitations • identify and explain the properties, uses and limitations of common glass, and glazing tools and equipment • identify and explain the types, properties, uses and limitations of common glazing products and consumables • identify and rectify problems with glass and glazing products and consumables • identify the likely impact of various environmental effects when using glass and glazing consumables • safely and effectively handle and store glass, glazing products and consumables • comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for using glass, glazing products and consumables to meet specified outcomes • communicate effectively and work safely with others in the work area.
Context of, and specific resources for assessment	<p>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.</p> <p>Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context.</p> <p>Assessment is to comply with relevant regulatory or Australian Standard requirements.</p> <p>The following resources should be made available:</p> <ul style="list-style-type: none"> • a range of commonly used glass, glazing products

	<p>and consumables</p> <ul style="list-style-type: none"> • specifications and work instructions • equipment for using glass, glazing products and consumables and a suitable storage location.
Method of assessment	<p>Assessment must satisfy the endorsed Assessment Guidelines of the LMF02 Furnishing Industry Training Package.</p> <p>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.</p> <p>Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application.</p> <p>Assessment may be applied under project-related conditions (real or simulated) and require evidence of process.</p> <p>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.</p> <p>Assessment may be in conjunction with assessment of other units of competency.</p>
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.

<p><i>OHS requirements</i> are to be in accordance with:</p>	<ul style="list-style-type: none"> • Commonwealth, state or territory legislation and regulations, organisational safety policies and procedures. Requirements may include, but are not limited to: <ul style="list-style-type: none"> • the use of personal protective equipment and clothing • fire fighting equipment • first aid equipment • hazard and risk control and elimination of hazardous materials and substances • manual handling, including lifting and carrying
<p><i>Legislative requirements</i> are to be in accordance with:</p>	<ul style="list-style-type: none"> • applicable legislation from all levels of government that affect organisational operation. Requirements may include, but are not limited to: <ul style="list-style-type: none"> • award and enterprise agreements • industrial relations • Australian Standards • confidentiality and privacy • OHS requirements • the environment • equal opportunity • anti-discrimination • relevant industry codes of practice • duty of care and heritage
<p><i>Organisational requirements</i> may include, but are not limited to:</p>	<ul style="list-style-type: none"> • 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 procedures • ethical standards • recording and reporting • access and equity principles and practices • equipment use

	<ul style="list-style-type: none">• maintenance and storage• environmental management (e.g. waste disposal, recycling and reuse guidelines)
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<p><i>Glass types, their characteristics and appropriate use may include, but are not limited to:</i></p>	<ul style="list-style-type: none"> • annealed glass • heat toughened and chemically strengthened glass • laminated glass • wired glass • tinted and heat reflective glass • coated glass and insulated glass units • low iron glass • self-cleaning glass • electrically heatable glass • low emissivity glass • mirrored glass
<p><i>Glazing products, their characteristics and appropriate use may include, but are not limited to:</i></p>	<ul style="list-style-type: none"> • clamps: <ul style="list-style-type: none"> • flat • radius • holeless • setting blocks and packers • U channel rubber • spider fittings: <ul style="list-style-type: none"> • 2, 3 and 4 arm • medium • heavy duty • frameless glass hinges, brackets and handles • patch fittings and locks • articulated bolts • stand-offs, anchors, spigots and mini-posts • handrail brackets, slotted tube, joiners and body • A frame ‘top hat’ sections and grommets • ball castors • clamp bars
<p><i>Glazing consumables include, but are not limited to:</i></p>	<ul style="list-style-type: none"> • silicone sealants: <ul style="list-style-type: none"> • neutral cure (clear, white and coloured) • anti-mildew sanitary (clear, white and coloured) • high performance/high joint movement for structural glazing • polyurethane sealants • glass cleaners and silicone removers • abrasives belts, discs and slurries: <ul style="list-style-type: none"> • silicon carbide • diamond • polishing items: <ul style="list-style-type: none"> • sprays and waxes

	<ul style="list-style-type: none">• cerium oxide• acids (sulphuric and hydrofluoric)• felt polishing bobs• backing rod• butyl glazing tape• setting blocks• glazing pins• foam tape:<ul style="list-style-type: none">• single• double-sided• structural• masking tape• mirror mounting tape• putty• horseshoe packers• safety glass decals• labels• gloves• blades• film• glass paint
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<p><i>Work requirements include:</i></p>	<ul style="list-style-type: none"> • workplace procedures relating to the handing and movement of glass • work instructions, including job sheets and plans • equipment manufacturer instructions • safety standards, including personal protective equipment, OHS regulations and enterprise requirements • manufacturer instructions for the use of equipment and materials • meeting AS 1288:2006 Glass in buildings - Selection and installation
<p><i>Tools and equipment may include:</i></p>	<ul style="list-style-type: none"> • tungsten wheel glass cutters • speed cutters • circle cutters • squares, vacuum and other straight edges • plate and running pliers and snips • drills and countersinks • spine rollers • mallets • silicone guns • squeegees and holsters • five-way cutting-in tools • trim knives • scrapers • scourers • measures • calculator • chamois • heat guns • screwdrivers • spanners • restraint straps and ratchets • vacuum lifters: <ul style="list-style-type: none"> • flat • curved • double/single cup
<p><i>Personal protective equipment includes:</i></p>	<ul style="list-style-type: none"> • that prescribed under legislation, regulation and enterprise policies and practices, and may include: <ul style="list-style-type: none"> • gauntlets • gloves • safety glasses • hard hats

	<ul style="list-style-type: none"> • safety footwear • aprons and overalls
<i>Manufacturer instructions may include:</i>	<ul style="list-style-type: none"> • safe handling procedures • strength and load bearing rates • glazing product fixing procedures, techniques and templates • cutting and bending techniques • glass fixing materials: <ul style="list-style-type: none"> • surface preparation before use • application techniques • tooling procedures • category of use, performance and structural strength • temperature range for use, curing and storage • shelf life • other storage requirements
<i>Problems with consumables may include:</i>	<ul style="list-style-type: none"> • poor quality • past use-by date • damaged in storage • wrong category/rating consumable for the job • used on contaminated surfaces • poor gunning and silicone application technique
<i>Workplace documentation may include but not be limited to:</i>	<ul style="list-style-type: none"> • types and quantities of products and consumables obtained, used and stored • job sheets recording products and consumables • product fault reports

Unit Sector(s)

Glass and glazing

Custom Content Section

Not applicable.