



Australian Government

MSFFM3020 Fabricate synthetic solid surface products

Release: 1

MSFFM3020 Fabricate synthetic solid surface products

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers fabricating synthetic solid surface furniture and furnishing products.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Furniture Making

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 | Prepare for work | 1.1 | Work instructions are used to determine job requirements, including design, tolerances, process, materials, finish and quantity |
| | | 1.2 | Fabrication sequence is planned |
| | | 1.3 | Procedures are determined for checking quality at each stage of the process |
| | | 1.4 | Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work |
| | | 1.5 | Suitable work area is selected for the task |
| | | 1.6 | Preparatory drawings and set-outs for tasks are completed |
| | | 1.7 | Cutting list for components is developed |

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| | | 1.8 | Materials are selected following work instructions |
| | | 1.9 | Tools and equipment suitable for fabrication are identified and checked for safe and effective operation |
| 2 | Complete fabrication | 2.1 | Materials are set out and prepared according to work instructions and components are marked according to industry practices |
| | | 2.2 | Tools, machines and equipment are used in accordance with safety requirements and manufacturer specifications |
| | | 2.3 | Components are fabricated and checked against set-outs for accuracy tolerances, fit and distortion |
| | | 2.4 | Doors, drawers, shelves or decorative treatments are fitted as required |
| | | 2.5 | Product is prepared for final finish, including the removal of bruises, scratches, dents and marks |
| | | 2.6 | Product is checked against plans at identified checkpoints |
| 3 | Finalise operation and maintain equipment | 3.1 | Work area is cleaned, hand and/or power tools and equipment are cleaned, maintained and stored in accordance with workplace procedures |
| | | 3.2 | Machinery is cleaned and left in a safe mode |
| | | 3.3 | Faulty and/or defective equipment is tagged and reported in accordance with workplace practices |
| | | 3.4 | Unused hardware is collected and stored for re-use or disposal following workplace procedures |
| | | 3.5 | Waste and scrap materials are dealt with following workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Synthetic solid surface products include:

- acrylic or polyester sheet-based materials

Synthetic solid surface products include:

- benchtops
- edges
- sinks
- bowls
- other containers and waterproof wall treatments

Unit context includes:

- WHS requirements, including legislation, building codes, material safety management systems, hazardous substances and dangerous goods code, and local safe operating procedures
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
- work involves reading and interpreting plans, developing set-outs, using hand and/or power tools, equipment and operating machinery

Tools and equipment include:

- measuring tapes or rulers
- hammers
- mallets
- squares
- bevels
- chisels
- planes
- hand saws
- power saws
- power drills/screwdrivers
- air compressor and hoses
- clamps
- screwdrivers
- pincers

Machines include:

- panel saws
- routers
- edge moulders
- point to point

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|--|---|
| Materials include: | <ul style="list-style-type: none">• heat applicators• sanding and buffing machines• synthetic solid surface materials• timber• manufactured board• glues• screws• nails• dowels• knockdown fittings |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulations and enterprise policies and practices |
| Information and procedures include: | <ul style="list-style-type: none">• workplace procedures relating to the use of tools and equipment• work instructions, including job sheets, cutting lists, plans, drawings and designs• workplace procedures relating to reporting and communication• manufacturer specifications and operational procedures |

Unit Mapping Information

Supersedes and is equivalent to LMFFM3028B Fabricate synthetic solid surface products.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFFM3020 Fabricate synthetic solid surface products

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment or products
 - maintain required production output and product quality
- Fabricate a minimum of three (3) synthetic solid surface material products, including at least one (1) full benchtop
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Minimise wastage of resources, including materials, time and money
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Types, characteristics, uses and limitations of synthetic solid surface materials
- Interpretation of plan representation of furniture design
- Preparation of drawings and set-outs
- Identification of hand and/or power tools, materials, machines, equipment, processes and procedures
- Work flow in relation to furniture production

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification

- be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to plans, hand and/or power tools, machines, equipment, materials and a work area.

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