



**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.

- |                    |   |
|--------------------|---|
| 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  |

- |   |   |   |  |
|---|---|---|--|
|   | 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

- Materials include:**
- heat applicators
  - sanding and buffing machines
  - synthetic solid surface materials
  - timber
  - manufactured board
  - glues
  - screws
  - nails
  - dowels
  - knockdown fittings
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Information and procedures include:**
- 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>