

**Overview**

This standard covers the skills and knowledge required to thermoform solid surfaces. It covers preparing moulds, calibrating and preheating equipment and thermoforming solid surfaces

## Performance criteria

*You must be able to:*

1. comply with health and safety requirements and procedures at all times
2. obtain specifications and requirements following standard operating procedures
3. obtain equipment and materials required following standard operating procedures
4. check equipment is set up correctly and in good working order following standard operating procedures and any manufacturer's instructions
5. check materials required meet specifications and are free from faults following standard operating procedures
6. prepare moulds following company procedures and manufacturers' instructions
7. calibrate and preheat thermoforming appliances following company procedures and manufacturers' instructions
8. place materials in or on thermoforming appliances following company procedures and manufacturers' instructions
9. follow cool down procedures using company procedures and manufacturers' instructions
10. remove materials from moulds following company procedures and manufacturers' instructions

## Knowledge and understanding

*You need to know and understand:*

1. relevant health and safety responsibilities
2. meaning of terms used in specifications
3. how to check equipment is set up and is in good working order
4. how to check materials and common faults that can occur
5. why it is important to select appropriate tools and equipment according to the manufacturers' instructions
6. types of materials moulds should be made from
7. importance of sanding and checking moulds
8. importance of supporting moulds
9. importance of calibrating and testing thermoforming appliances
10. why materials should be fully enclosed in thermoforming ovens
11. times and temperatures for heating different solid surfaces
12. importance of heating solid surfaces enough and at right temperatures
13. cool down times and periods
14. limitations of thermoforming
15. sensitive solid surface colours and patterns

## Thermoform solid surface

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**Developed by** NSAFD

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**Version Number** 2

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**Indicative Review Date** January 2023

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**Validity** Current

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**Status** Original

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**Originating Organisation** Proskills

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**Original URN** PROSS07

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**Relevant Occupations** Furniture Makers and Other Craft Woodworkers

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**Suite** Solid Surface Fabrication, Installation and Templating

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**Keywords** Solid; surfaces; thermoform

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