

## Overview

This standard covers the skills and knowledge required for toughened glass production. This includes ensuring that the glass is suitable and prepared for toughening, monitoring the process and understanding how toughened glass is made and identified.

## Performance criteria

### *You must be able to:*

1. comply with health and safety requirements and procedures at all times
2. obtain schedules and specifications for work being undertaken
3. check and confirm glass is prepared and suitable for use
4. select the appropriate methods and equipment for the toughening process and confirm that it is available and safe for use
5. quality check toughening processes following standard operating procedures
6. quality check finished products to meet specifications
7. prepare equipment, machinery and tools to meet specifications
8. start up and shut down equipment, machinery and tools following standard operating procedures
9. operate equipment, machinery and tools following standard operating procedures and manufacturers' instructions
10. confirm monitoring and control systems are fully functional
11. monitor toughening processes following standard operating procedures
12. identify any problems and deal with them following standard operating procedures
13. record information in the appropriate information systems

## Knowledge and understanding

### *You need to know and understand:*

1. relevant health and safety responsibilities and obligations
2. relevant health and safety procedures that need to be followed
3. how to confirm specifications for the work being undertaken
4. level of detail required in specifications
5. equipment, materials and work procedures used for different jobs
6. information that must be indelibly marked on toughened glass
7. toughening process including temperatures, annealing process and equipment
8. different types of edge work
9. differences between toughened and heat strengthened glass
10. the British Standard that must be met
11. how processes may differ when producing glass over 10mm thick, soft coat glass and curved glass
12. how to monitor the flow of materials
13. how to identify variations from required flow rates
14. how to adjust flow rates
15. how a need for variation in recipe is identified
16. how a variation in recipe is made
17. how to check toughened glass meets specification
18. what to do if the finished product does not meet specification and standards
19. maintenance requirements of different types of equipment, machinery or tools
20. type of problems that could occur and the standard operating procedures for dealing with them
21. information systems used
22. why it is important to use information systems

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Produce toughened glass



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**Relevant Occupations** Glass and Ceramic Maker Decorator Finisher

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**Suite** Glass Processing

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