Control heat treatment in food and drink operations



Overview This standard is about the skills and knowledge needed for you to control heat treatment in food and drink operations and the associated supply chain.

This standard is about applying heat to bring about a change in the condition of a product. It details the skills required to start up, run and shut down equipment, as well as being able to take the appropriate action should operating problems occur. It is also about working to product specifications and production schedules. Complying with and understanding health and safety, food safety and organisational requirements are essential features of this standard.

This standard is for you if you work in food and drink manufacture and/or supply operations and are involved in controlling heat treatment.

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## **Performance criteria**

You must be able to:

### Prepare for heat treatment

- operate to the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when preparing for heat treatment
- 2. check product specifications at the right time
- 3. set up equipment according to specification
- 4. check that material for heat treatment is available and fit for use
- 5. check that services meet requirements
- 6. start up the plant and check that it is running to specification
- 7. take effective action in response to operating problems
- 8. maintain effective communication

### Carry out heat treatment

- meet the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when carrying out heat treatment
- 10. use equipment and check that it is supplied with materials and services
- 11. achieve the required output to the correct specification
- 12. check the product is transferred to the next stage in the manufacturing operation
- 13. take effective action in response to operating problems within the limits of your responsibility
- 14. maintain effective communication

### **Finish heat treatment**

- 15. meet the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when finishing heat treatment
- 16. check the specifications to time shut down accurately
- 17. follow procedures to shut down equipment
- 18. deal with items that can be re-cycled or reworked
- 19. dispose of waste
- 20. make equipment ready for future use after completion of the process
- 21. maintain effective communication
- 22. complete all necessary documentation

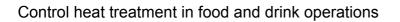
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# Knowledge and understanding

You need to know and understand:

- 1. what the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions are and what may happen if they are not followed
- 2. the purpose and importance of heat treatment
- 3. what equipment and tools to use and their correct condition
- 4. what materials to use and in what quantity
- 5. how to obtain and interpret the relevant process or ingredient specification
- 6. what recording, reporting and communication is needed and how to carry this out and the reasons why it is important to do so
- 7. what action to take when the process specification is not met
- 8. how to carry out the necessary pre start checks and why it is important to do so
- 9. how to follow the start up procedures for heat treatment and why it is important to do so
- 10. how to obtain the necessary resources for heat treatment
- 11. how to follow work instructions and why it is important to do so
- 12. common sources of contamination during processing, how to avoid these and what might happen if this is not done
- 13. how to operate, regulate and shut down the relevant equipment
- 14. when it is necessary to seek assistance and how to seek it
- 15. how to follow the relevant process control procedures and why it is important to do so
- 16. different ways to carry out heat treatment
- 17. how to carry out heat treatment in an efficient manner and why it is important to do so
- 18. what the limits of your own authority and competence are and why it is important to work within them
- 19. how to deal with items that can be re-cycled or re-worked
- 20. how to dispose of waste
- 21. how to make equipment ready for future use





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