

Control size reduction in food and drink operations

Overview

This standard is about controlling size reduction in food and drink production. 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, environmental 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 size reduction in food and drink operations.

Control size reduction in food and drink operations

Performance criteria

You must be able to:

1. operate to the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when preparing for size reduction
2. check product specifications at the right time
3. set up equipment according to specification
4. check that material for size reduction 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
9. meet the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when carrying out size reduction
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. meet the legal or regulatory requirements, the organisational health and safety, hygiene and environmental standards and instructions when finishing size reduction
15. check the specifications to time shut down in accordance with organisational requirements
16. follow procedures to shut down equipment
17. deal with items that can be re-cycled or re-worked
18. dispose of waste
19. make equipment ready for future use after completion of the process
20. complete all necessary documentation

Control size reduction in food and drink operations

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 size reduction
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 size reduction and why it is important to do so
10. how to obtain the necessary resources for size reduction
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 size reduction
17. how to carry out size reduction 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
22. how factory digitisation supports the production process

Control size reduction in food and drink operations

Developed by	Improve
Version Number	4
Date Approved	30 Mar 2023
Indicative Review Date	30 Mar 2028
Validity	Current
Status	Original
Originating Organisation	Improve
Original URN	IMPP0205
Relevant Occupations	Engineering and Manufacturing Technologies, Manufacturing Technologies, Plant and Machine Operatives, Process Operatives, Process, Plant and Machine Operatives
Suite	Production and Control Operations in Food Manufacture
Keywords	Food; drink; manufacturing; operations; size; reduction