



# Module 5: Controlling and eliminating food hazards - Specific









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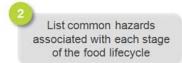
# Learning objectives

At the end of 'Module 5: Controlling and eliminating food hazards - Specific' you will be able to:





Explain how to control or eliminate common hazards





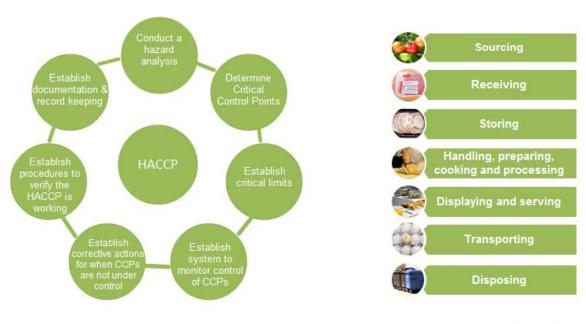








# The HACCP System and the Food Lifecycle













## The Food Lifecycle

The Food Lifecycle consists of seven steps.















# The Food Lifecycle - Sourcing

Managing the food that you bring into your food business.

Going to a store or supplier and selecting and transporting the food yourself

Purchase potentially hazardous foods such as meat and dairy last

Keep potentially hazardous foods cold

Prevent cross-contamination by separating

Refrigerate foods immediately

Follow the relevant receiving food quidelines

Suppliers deliver food direct to your food business

Follow the receiving food guidelines

Can also use an 'Approved Food Supplier Agreement Form'



It is important to maintain a list of approved suppliers





OR











# The Food Lifecycle - Receiving

Date	Time	Supplier No.	Product Received	Temp °C	Visual Check	Labelling	Designated Storage Area	Accepted / Rejected	Corrective Action	Checked by
01/01/12	09:00	1	Frozen green prawns	-18°C	Frozen hard Packaging intact	Correct	Freezer	Accepted	None	Jane



#### Temperature



Frozen foods are frozen hard



Cold foods are at or below 5°C



Hot foods are at or above 60°C

#### Labelling



Name of the food



Name and address of the supplier



Lot or batch identification



Use-by or best-before date

#### Within the use-by date or best-before date



Packaging is appropriate and is not damaged



No evidence of pest contamination

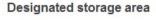


No evidence of foreign objects

Visual check



Delivery truck used is clean





Cupboards or store rooms



Refrigerators or cool rooms



Freezers or freezer rooms



Record of Incoming Goods Form and Checklist







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## The Food Lifecycle - Storing

Once you have received food products, it is important to store them in the appropriate storage area immediately to help prevent potential contamination.

- Cupboards, storerooms or any 'dry' storage location
- For dry foods that have a long shelf life and can be kept at room temperature



#### Types of storage

- · Refrigerators or cool rooms
- For foods that must be kept in the 'Cold Food Safe Zone' at 5°C or less

- Freezers or freezer rooms
- For foods that must be kept frozen solid at -15°C or less















### The Food Lifecycle - Storing

Follow these tips when storing food products:



- Always follow the storage instructions on the label
- Ensure that food is stored and covered in appropriate food grade containers or packaging
- Check stored food regularly
- Ensure all food products are correctly and clearly labelled
- Store potentially hazardous food under temperature control
- Regularly check the temperature of potentially hazardous food with a temperature measuring device
- Separate raw foods from cooked foods
- Ensure the refrigerator and freezer are cleaned and defrosted on a regular basis
- Only open refrigerator or freezer doors when necessary
- Ensure food storage areas are cleaned on a regular basis
- Check food storage areas regularly for signs of pests and report any signs immediately

#### Don't:

- Do not store raw food above cooked foods
- Do not overload or overstock refrigerators or freezers
- Do not put very hot food in the refrigerator
- Do not store food on the floor
- Do not store food with other items such as chemicals or linen





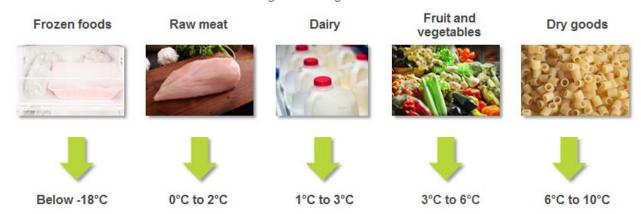






# The Food Lifecycle - Storing

The temperature of the food product and the food storage area is very important in controlling microbiological contamination.







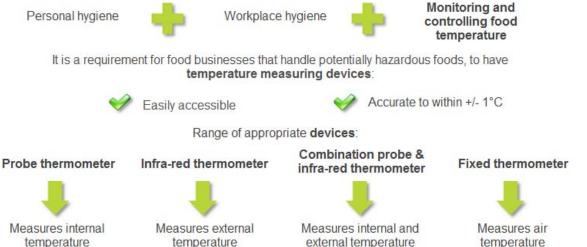






You must take all practical steps to ensure you prevent contamination and cross-contamination of the food





Avoid contamination:











The most commonly used device is the probe thermometer. Follow these simple steps to use one safely.

Step 1	Wash the probe under hot running water and sanitise it
Step 2	Insert the probe into the centre or thickest part of the food
Step 3	Read the temperature and record
Step 4	Take appropriate <b>steps</b> if the temperature is outside the Temperature Safe Zone
Step 5	Wash and sanitise the probe before returning to its storage location











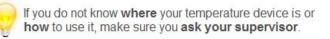
It is important that all thermometers are kept in good condition and are calibrated regularly.

Follow these steps to calibrate a probe thermometer.

Place the probe in boiling water and confirm the temperature reads 100°C

Place the probe in crushed ice and clean water and confirm the temperature reads 0°C















Keep in mind that food can stay in the Temperature Danger Zone for a short time and still be safe.







Click each process to find out more











Click each process to find out more

Follow the personal hygiene



Workplace hygiene procedures













When handling and preparing food, ensure it is in the Temperature Danger Zone for the minimum possible time











Click each process to find out more

There is the potential for food to become contaminated while it is being cooked.

Follow the manufacturer's instructions when using equipment for cooking.



Allow cooked liquids (such as soups and sauces) to boil to kill bacteria



Check that cooked meats have clear juices



Check the temperature of cooked foods with an appropriate, sanitised thermometer



Cooking food to temperatures above 75°C will kill most bacteria



















Click each process to find out more

You need to ensure that cooked food is cooled as quickly as possible to the Cold Food Safety Zone (<5°C)

#### BUT

Should not put food in the refrigerator when it is hot.

Use these stages to cool food safely:



Cool from 60 to 21°C within 2 hours



Cool from 21 to 5°C within a further 4 hours



To help cool large amounts of food quicker, divide it and transfer it into small, shallow containers.











Click each process to find out more

Most foods can be frozen. Some common foods:



















#### Remember to:



Never re-freeze food that has already been defrosted



Never freeze foods that have been reheated



Freeze foods in small portions in shallow containers











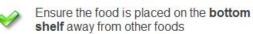




Always use either:

Click each process to find out more







You can keep defrosted food in the refrigerator for a short amount of time







Never cook or reheat food until it is completely defrosted











Click each process to find out more

Must be reheated rapidly to 75°C or hotter using the oven or microwave.

#### Remember:

The less time the food spends in the Temperature Danger Zone the better.

Once reheated, the food must be maintained at 60°C or hotter using a warmer or bain-marie.















Click each process to find out more

All food processing must be conducted in a clean area, using clean equipment and following all personal and workplace hygiene procedures.











Remember, ensure potentially hazardous foods are held outside of temperature control for the minimum time possible during processing.

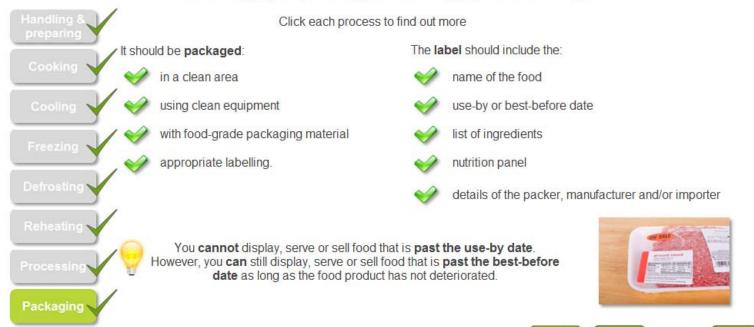












Replay 2









#### The Food Lifecycle - Displaying and serving

You must take all practical measures to protect the food from the likelihood of contamination.

Can be conducted either by:







All potentially hazardous food must be under temperature control or subject to the '2 hour-4 hour' rule.

#### Packaged food

packaging

Intact, undamaged

Protected from

contamination

Separated from

ready to eat food

#### Non-ready to eat food Ready to eat food (not self-service)

#### Not displayed where a customer can access it, unless it is

enclosed

#### Ready to eat food (self-service)

- Prevent crosscontamination
- Prevent contamination by customers
- Effectively supervised







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### The Food Lifecycle - Transporting

It is just as important to continue to protect food from contamination during transport.

#### Follow these tips for safe food transport:

Do not transport food products with chemicals or other potential contaminants



Ensure food is packaged or covered appropriately with food grade quality materials



If packaging becomes damaged during transport, inspect the food for signs of any contamination and throw it out if it is no longer safe



Keep ready to eat and raw food separated during transportation



Raw food should be transported below ready to eat food



To ensure potentially hazardous food is transported under temperature control:



- Use a vehicle with a cooling system to ensure cold food remains under 5°C and frozen food remains frozen
- Use a vehicle with a heating system to ensure hot food remains above 60°C
- You can use insulated boxes to maintain the safe temperature, but only for transport over short distances



Ensure the transport vehicle and any transport boxes are clean







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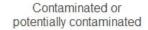




## The Food Lifecycle - Disposing

The last stage of the food lifecycle is to dispose of any food products, as needed.





Recalled



Scraps from the food preparation process

Uneaten food that was served to a customer















## Summary

Congratulations! You have now completed Module 5: Controlling and eliminating food hazards - Specific.

You should now be able to:

- List the stages of the food lifecycle
- List the common hazards associated with each stage of the food lifecycle
- Explain how to control or eliminate food hazards

You can now return to the home page and move on to the next module which will look at reporting and monitoring food hazards.





