



The Topics

- Food Safety and aims of the food safety.
- Benefits of good food safety.
- Costs of poor food safety and food contamination.
- Prevalence of Food poisoning
- Hazard of food safety
- Initial Questions
- Flow food diagram- catering operation
- Food storage.

- Food Safety Tips
- Tips for food handlers hand washing.
- Principles of HACCP implementation
- Corrective actions of HACCP
- Regulations of Food Quality and Safety.





Food Safety Safety



Food Safety refers to handling, preparing and storge food in a way to reduce the risk of individuals becoming sick from foodborne illnesses.



The principles of food safety aim to Prevent food contamination.



Reduce food spoiling and Prevent food poisoning







The aims of Food Quality and Safety

- Health control of foodstuffs.
- Health control of workers in the field of food handling
- Health control over the food trading venues directly related to the health of the individuals.







Having a healthy meals for the consumers.



Satisfied customers (taste, textures and confident customers).



Healthy consumers and healthy employees



Reducing food waste, food loss and save money (profit gain)



Compliance with the programs such as HACCP, Iso 22000, procedures, recommendations of food safety.



Pleasant working environment.

Benefits of good food safety





The costs of poor food safety



Loss of confidence and bad publicity.



Operating costs increase – employee absenteeism and reduced productivity.



Lawsuit damages.



Hospitalizations and even death, Personal pain and suffering.



Food wasting Profit loss.







HAZARDS

Three Hazards



Biological

Bacteria & viruses (microorganisms)

Biggest threat to food safety, responsible for majority of food borne illness outbreaks.



Chemical

Cleaning supplies



Physical

foreign objects, i.e., dirt, hair, glass







Prevalence of Food Poisoning Worldwide

- There were an estimated 582 million cases of 22 different foodborne enteric diseases
- Food poisoning causes 351 000 associated deaths worldwide.
- The most deaths were from Salmonella Typhi (52 000 deaths), enteropathogenic E. coli (37 000) and norovirus (35 000).
- Over 40% people suffering from enteric diseases caused by contaminated food were children







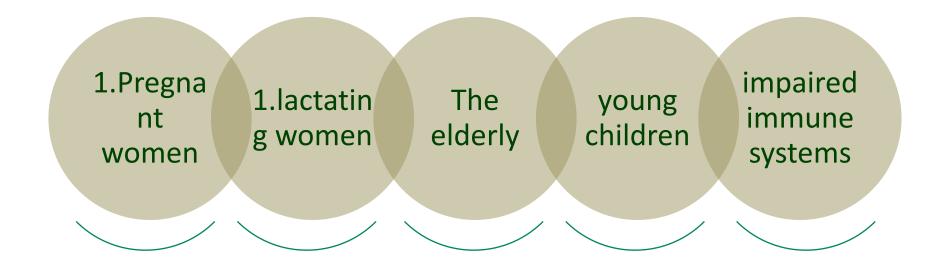
Prevalence of Food Poisoning in USA

- CDC estimates that each year roughly 1 in 6
 Americans (or 48 million people) get sick.
- 128,000 are hospitalized due to food contamination or poisoning.
- Estimated 3,000 die of foodborne diseases annually in USA due to food contamination or poisoning.





Those most at risk include









Initial Questions

How does food become contaminated?

Cross - contamination is the contamination of a food product from another source.

Bacteria also need to grow before they become a foodborne threat

Proper food handling practices are important to reduce the likelihood that bacteria will be allowed to grow and contaminate food

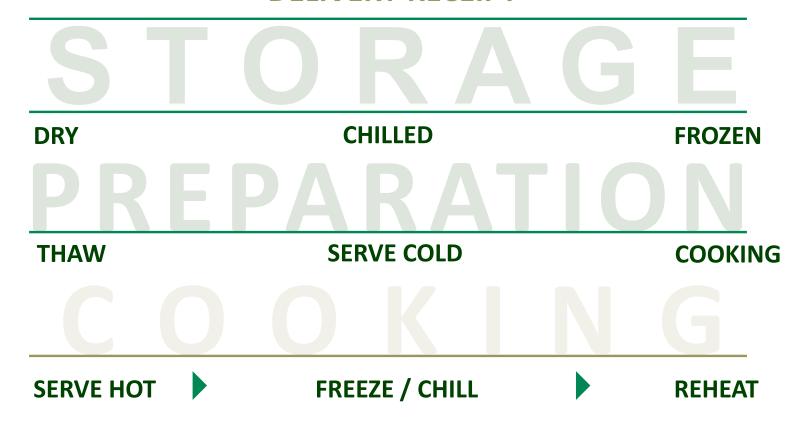
- FOOD STORAGE
- TEMPERATURE
- TIME
- HYGIENE
- SANITATION





Food flow diagram – catering operation

DELIVERY RECEIPT







Food Storage

Food can be divided into four main groups:



Dry Food

flour, sugar, pasta, rice



Semi - Dry Food

potatoes, apples, oranges, bread



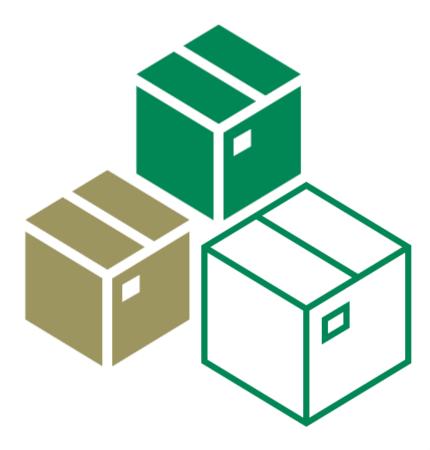
Perishable foods

that should be kept in the fridge.



Frozen foods

foods to be kept for a longer time in the freezer.









KEEP	Keep the inside of the refrigerator very cold. The lowest shelves being the coldest.
NEVER	NEVER stuff the meat, turkey or fish until you are ready to cook them.
соок	After thawing foods, you must cook them before refreezing.
CAUTION	Any food containing mayonnaise must be always kept cold.
WASH	Wash all fruits and vegetables before eating them.





Tips for Food Handlers -Steps to Prevent Food Poisoning

Hand Washing

The single most important means of preventing the spread of infection and illness, and cross contamination



Proper Hand Washing Procedure

Wet your hands with running water as hot as you can comfortably stand

- Apply Soap then
 Vigorously scrub hands
 and arms for ten to fifteen
 seconds
- Rinse thoroughly under running water
- Dry hands and arms with a single-use paper towel or warm-air hand dryer







Before, during, and after preparing any food.

After handling uncooked meat, chicken or other poultry, seafood, flour, or eggs.

Before and after using gloves to prevent germs from spreading to food and the hands.

Before eating.

After touching garbage.

After wiping counters or cleaning other surfaces with chemicals.

After going to the toilet.







Protective clothing

Employee responsibilities

- Wear the correct clothing for the work.
- Food safe gloves and hair nets help to hygienically prepare food and prevent foreign objects in falling into food.
- Clean aprons, gloves, towels and more will help to hygienically prepare food, protecting your customers from food poisoning or injury.
- Change clothing as soon as it becomes soiled, torn or damaged.
- Tell manager if protective clothing is torn or damaged.





Principles of HACCP implementation

- Hazard analysis
- Determine of Identify the Critical Control Points (CCP)
- Establish critical control point and limits
- Monitor the Critical Control Point (CCP)
- Corrective actions
- Establish verification procedures verify that the HACCP system is working
- Record keeping procedures (Document the HACCP system)





Critical Control Point

Points may be identified as critical points (CCP) when hazards can be prevented, for example:

- Microbiological or chemical poisoning agents can be removed by proper cleaning of the surfaces.
- Pathogenic bacteria growth can be controlled by refrigerated storage or chilling.
- Chemical residue or contamination can be prevented by control at the receiving stage.







Regulations of Food Quality and Safety

HACCP System and ISO 22000 Food Safety Management System

Specifications and regulations of foods and food products issued by Saudi Food and Drug Authority.

Any recommendations issued by international organizations and recognized scientific societies







