

FOOD20006 Assignment Project Exam Help

Food Microbiology and WeChat p

Safety

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Food Safety and Help Assignment Project Exam Help Regulation https://powcoder.com/

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Ray and Bhunina Ch 8

Intended learning outcomes outcomes

- Understand the underlying principles of food safety regulations
- Explain the roles of different regulations and how they contribute to food safety
- Assignment Project Exam Help
 Be familiar with some key definition in the Food Act
- Differentiate between quality-control the quality-control the com
- Understand how HACCP works
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Lecture plan

Food safety-what is it?

History of food regulation in Australia

• Responsibilities for food regulation

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How food safety is assured in Victoriattps://powcoder.

HACCP

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What is safe food?

The Victorian Food Act, 1984 defines what unsafe food is.

"... food is unsafe.... If it is likely to cause physical harm to a person who might later consume it..."

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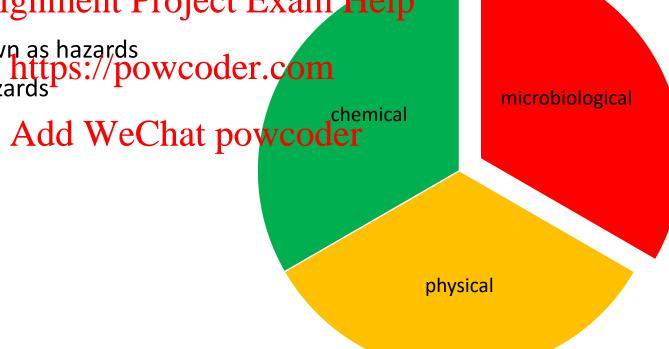
The potential causes of harm are known as hazards

There are three main categories of hazards

Chemical contaminants

Microbial contaminants

Physical contaminants





Hazards

Chemical contaminants are chemicals that are present in the food that should not be there and could cause harm. For example, disinfectant residues

Physical contaminants in food mades in food made in

Microbial contaminants in food may be bacteria, viruses, fungi or parasites that are not intended to the investment powcoder.

Note that many fermented foods have high levels of bacteria yeast or mold that have been intentionally added to the food and these are safe and are not considered as contaminants







Risks are the likelihood that a hazard may do harm

The five most likely risks associated with food safety are listed on the right.

How would you rank them in order spignment? Project Exam Help what is the most likely and what is the less likely?

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Microbial contamination

https://powcoder Environmental pollution

Nutritional imbalance

Pesticides

Food additives



Relative Risks

Microbial contamination or nutritional balance HIGH

Microbial contamination

Nutritional imbalance

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Environmental pollution

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Environmental pollution

Pesticides or food additives

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Food additives

Pesticides



Microbial contamination

Types of contaminants

Bacteria

Viruses

Fungi

Parasites

Microbial by-products that form during growth in the food or food ingredients i.e. Aflat wire Chat powcoder







Bacterial food poisoning

Foodborne illness or "food poisoning" can be caused by

Live bacterial pathogen = infection

Pre-formed toxins = intoxication

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The infective dose for different pathogen is variable.

highly infective so small number passephowscoder.

 infectivity and consumption of large numbers of bacteria is required to established the bacteria poven

Pre-formed toxins

- toxins produced by bacteria as they grow in the food itself.
- The actual bacteria may have died off by the time someone eats the food but the toxin can remain and cause illness, a so-called intoxication



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Reducing risk of bacterial foodborne disease

Microbial food safety is assured by

Limiting pathogen contamination

Preventing contamination

Obtaining food from safe sources

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Good food handling practice https://powcoder.com

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Preventing growth (preservation)

Low-temperature storage

Acidification (pickling)

Drying

Removing bacteria

Physical removal by washing or peeling

Killing them by heat treatment or irradiation









The beginning of food safety regulation in Australia

Ineffective due to lack of analytics

1863 Victorian Act to Prevent the Adulteration of Articles of Food and Drink

Appointment of public food analysts

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1883 Victorian Public Health Amendment

Statute

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1905 Victorian Pure Food Act powcoder

Australia became a Federation in 1901. Each State had its own responsibility for food safety

1908 Quarantine Act; NSW Pure Food Act; SA Food and Drugs Act

1911 WA Health Act



Towards uniform food legislation

1953 Uniform food regulations within the NHMRC



1961 Codex Alimentarius commission set up https://powcoder.com

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1986 Drafting of Model Food Act to achieve National food legislation

1991 National Food authority Act established the National food Authority now known as FSANZ







Victoria food safety legislation

- Dairy Act 2000
- Meat Industry Act 1993 Assignment Project Exam Help
- Seafood Safety Act 2003 https://powcoder.com
- Victoria Food Act 1984
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 covers manufacture of food other than meat, dairy and seafood
 covers sale of all food

All of these pieces of legislation require food safety programs



Victorian Food Act, 1984

The objectives of the Act are

- a) To ensure food for sale is both safe and suitable for human consumption
- Assignment Project Exam Help
 b) To prevent misleading conduct in connection with the sale of food
- c) To provide for the application in Victoria of the Food Standards Code

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The Food Standards Code is a set of standards written by FSANZ



The Food Act define "unsafe food"

"...likely to cause physical harm to a person who might later consume according to its reasonable intended use"

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Unsuitable food (Vic Food Act)

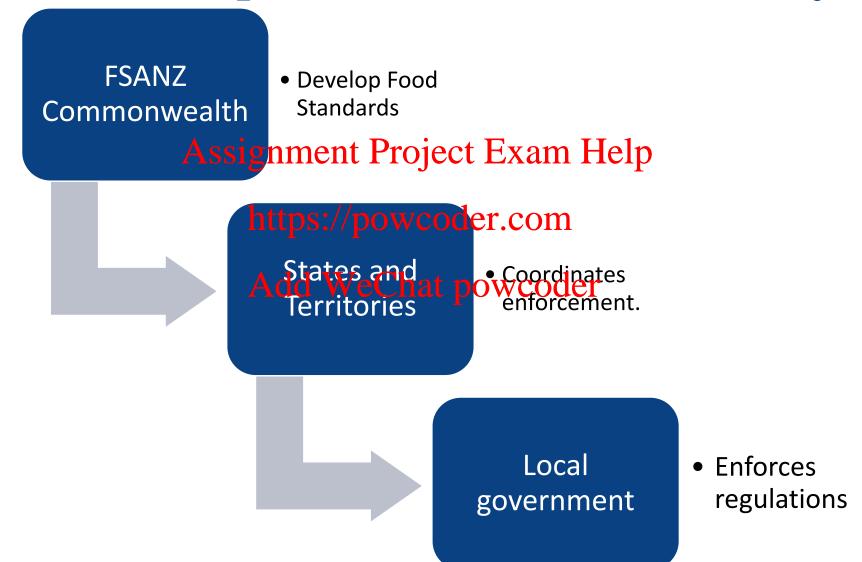
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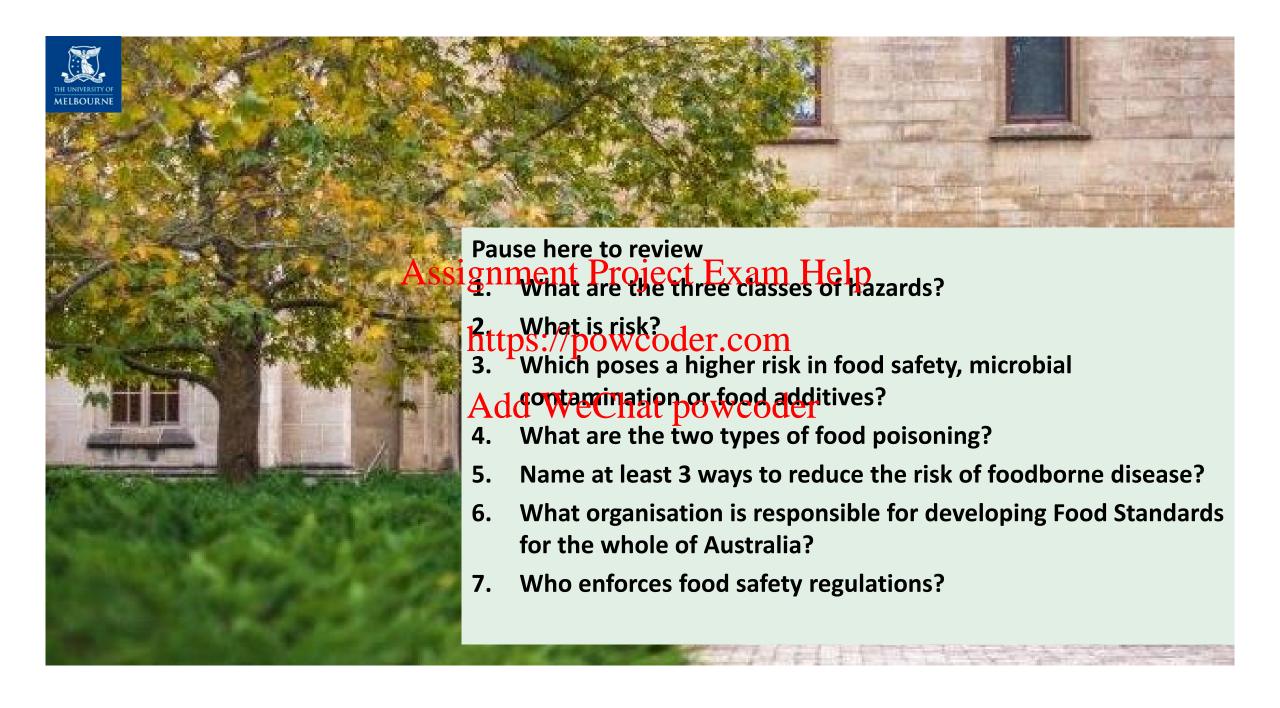
"...food is unsuitable if it Assignment Project Exam Help

- a) Is damaged, deteriorated or perished https://powcoder.com
- b) Contains any damaged, deteriorated or perished substances that affects its reasonable intended use
- c) Contains a biological or chemical agent, or other matter or substance, that is foreign to the nature of the food



Roles and responsibilities for food safety







Food Safety Assignment Project/Exam Help Quality

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Quality control

Up until the mid 1900s, Food production standards focused on Quality control (QC)

Quality control is a managerial process guring which reflect Exam Help

- 1. Evaluate actual performance
- 2. Compare actual performance to goals
- 3. Take action on differences

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Quality control process

Quality is assessed by inspection of the final product

determine what is suitable quality

check finish product against set "standard project Exam Help

substandard products rejected

Quality control is a product oriented protest W

Corrective actions are taken after the process





Quality Assurance

Quality assurance is part of quality management which is focused on providing confidence that quality requirements will be fulfilled (ISO 9000:2016)

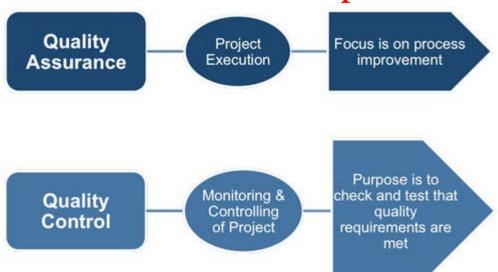
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Quality assurance is process oriented

It is a systematic approach

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Checks are made throughout the production cycle to ensure a product will meet quality requirements Add WeChat powcoder





JAZARD

each point in the proces CONTRO It can be controlled

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SAdd We Chat powcoder L

con be measured

can be avalysed

It is critical
for FSQ

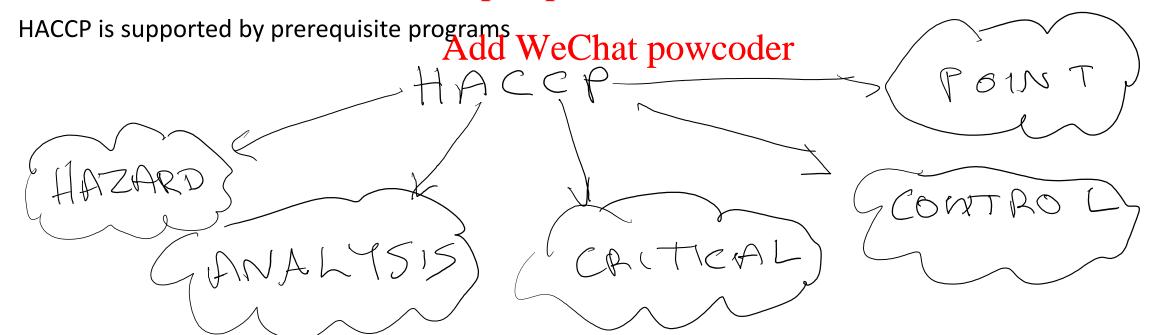


Hazard Analysis Critical Control Point (HACCP)

HACCP was developed in the 1960s to ensure that astronauts had safe food

It is defined as "a system which identifies nevaluate properties hazards which are significant for food safety"

HACCP is based on seven principles and it four power power principles and it four power principles and it four power power power power principles and it four power power power power power principles and it four power power





Prerequisite programs

Prerequisite programs (PRPs) are procedures aimed at producing safe food .PRPs consider

the source of the food Assignment Project Exam Help

the premises were food is being processed

the process environment https://powcoder.com

the product Add WeChat powcoder

the people involved

Examples of prerequisite programs are Good Agricultural Practices GAP) and

Good Manufacturing Practices (GMP)



The 7 HACCP Principles

- 1. Conduct a hazard analysis
- 2. Determine critical control points (CCPs)
- 3. Establish critical limits for each SSPgnment Project Exam Help
- 4. Establish monitoring
- 5. Establish corrective actions https://powcoder.com
- 6. Verify the system is working effectiveld WeChat powcoder
- 7. Document all procedures and records



5 Codex extras + 7 HACCP Principles = 12 steps

- 1. Assemble the HACCP team
- 2. Describe the product
- 3. Identify the end use
- 4. Construct a flow diagram Assignment Project Exam Help
- 5. On-site confirmation of flow diagram/powcoder.com



- Determine critical control points (CCPs)
- Establish critical limits for each CCP
- **Establish monitoring**
- 10. Establish corrective actions
- 11. Verify the system is working effectively
- 12. Document all procedures and records





HACCP Decision Tree

The decision tree has questions which help decide whether a step in a process is a critical control point or not.

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Pause here and think about the supply thain of //powcoder.c of the milk from the point of delivery of the milk from the dairy to the factory through to the carton of weeklanging company.

Question 3:

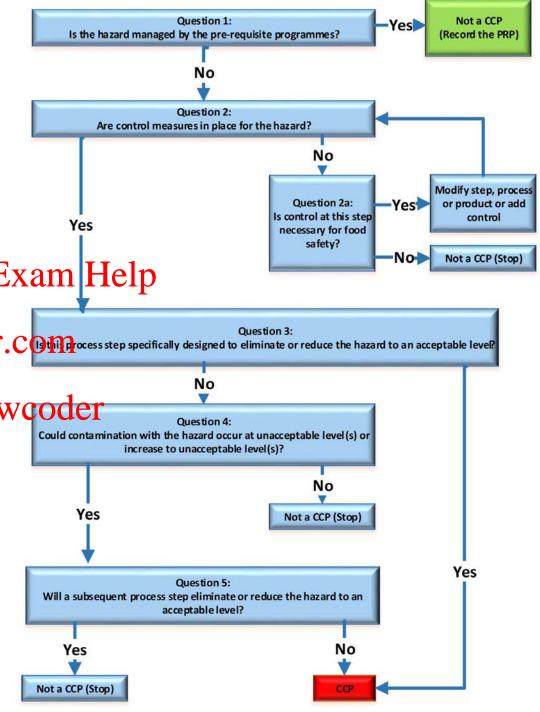
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Question 4:

Question

Evaluate the steps 1-4 below. Are any CCPs?

- 1. Chilling
- 2. Pasteurisation
- 3. Homogenisation
- 4. Packaging





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