

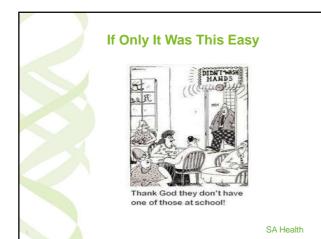


#### Introduction

How a Risk-Based focus can impact on Food Safety outcomes

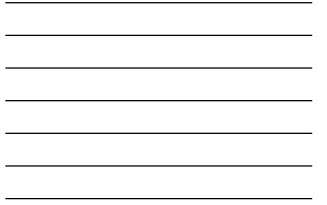
Recognising Food Safety Hazards Risk Based Inspection > Morning tea Risk Based Inspection cont. > Lunch

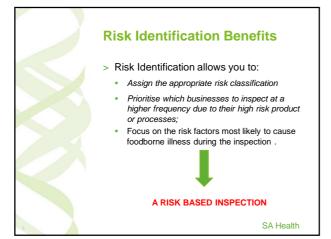
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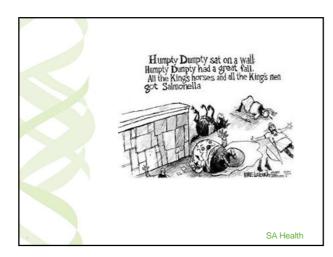
	Business Name:	WP & GN Sharkie		
	Trading Name	Mercury Fish Cafe'		
	ABN	4213098		
	Address	22 Esplanade		
		Desert Sands SA 5001		
	Contact: Wallie & Gwenda	Ph 08 83679921	Mob 0498 857861	
What is highest	email	sharkies@lineout.net.au		
Risk Food?	Business Sells			
	Hamburgers – Beef, chick	en, onion, eggs, salad, beet	root, selection of sauces	
	Fish - grilled, battered or			
		own crispy "home" peeled	and cooked	
140.0	Yiros – Lamb and Chicken with Wallies own toppings			
Why?	Home Packed Salads in Wallies special sauces and Mayonnaise and Garnishing Frozen Foods, - Dim Sims, Chiko Rolls, Hash Browns, Cakes,			
			Cakes,	
	Assorted Confectionery &	Soft Drinks		
	Suppliers			
		sed daily from the local fisl	n market	
	Burger meat - purchased	from the local butcher		
	Potatoes - home grown			
	Vegetables and eggs - pur	chased from the local Fres	h Fruit & Veg supplier	
		are prepared on site. Ingre		
	vinegar herbs and spices.			
	Specialising in Catering			
	Specialising in catering	5		
	Salads are available in	Supermarkets through	out the district.	
			SA Health	







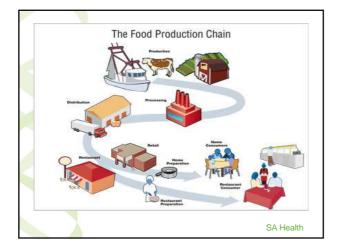
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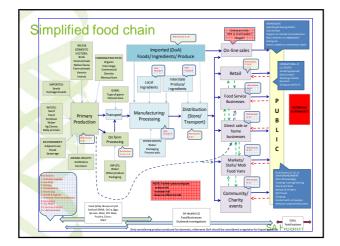
#### **Recognising Food Safety Hazards**

#### Issues to be aware of

- Where pathogens come from and their survival or spread through processing;
- Why some pathogens are more likely to occur in certain types of food;
- What to look for when matching foods/ processes to pathogens;
- How the hurdles applied affects the food safety outcome of a food;
- When you should set off your internal 'food safety alarm'.









#### **Hazard Associations**

**Refer to Process Limits Handout** 

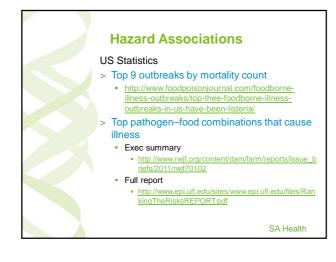
- Some primary produce has a higher association with certain pathogens:
   Target M/O and Why
- Some food has a higher association with certain pathogens due to processing and handling undertaken
   Target M/O and Why
- > What process limits are required to make food safe.

PRODUCE -	EATEN	RAW

Food	Associated Pathogen	Why
Rockmelon	Listeria Salmonella	Low acid and with a surface that allows for pathogens to 'hide'. Cutting through the fruit transfers the bacteria to the nutrient rich internals.
Lettuce, cucumber, fresh tomato	Salmonella, E coli, Listeria	The conditions under which these are grown, no cook step applied.
Sprouts	Salmonella, E coli	Seeds are sprouted under warm humid conditions, then eaten raw.
Nuts	Salmonella	Nuts are exposed to pre-harvest hazards such as wild reservoirs of Salmonella.
Frozen berries	Нер А	Handler health in developing countries where these products are sourced.



Produce	Associated With	Why
Red meat	E coli, Salmonella,	WHERE & HOW it is grown -
	Listeria	Grazing animals eating contaminated fodder, sick animal don't always LOOK sick, & can therefore spread the disea
Poultry	Salmonella,	WHERE & HOW it is grown -
	Campylobacter, E coli,	Intensive farming practices allow for easy spread of disea
	Listeria	Organic farming practices allow for higher interaction with wild vectors
Eggs	Salmonella,	WHERE & HOW it is grown -
	Campylobacter	Intensive farming practices allow for easy spread of disea
		Organic farming practices allow for higher interaction with
		wild vectors. ALSO - there is only one hole
Bivalve Molluscs	Norovirus, E coli,	WHERE & HOW they are grown –
	Salmonella	Water contaminated with raw sewerage
Raw Milk	Salmonella,	WHERE it comes from -
	Campylobacter, E coli, Listeria	The proximity of the udder to the animals waste

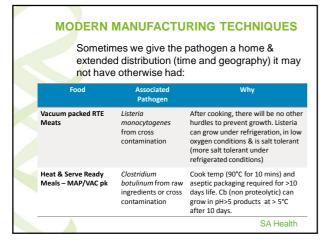




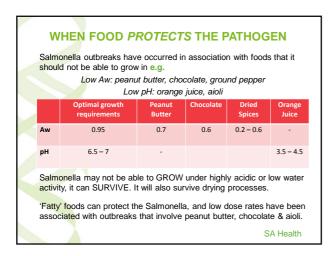


IS THE PRODUCT/PROC	IS THE PRODUCT/PROCESS HIGH RISK?				
HIGH RISK FOOD	CONTROL MEASURE	SPECIFIC MICROORGANISM			
Raw egg foods	Cooking temp or pH	Salmonella, Campylobacter			
Raw chicken on site	Cooking (Temperature)	Campylobacter, Salmonella			
Soups, stews, mashed or vitamised vegetables, rice, pasta	Cook Chill (Temperature) e.g. stews/ soups/ rice/ pasta	C perfringens, B cereus			
Bivalve molluscs	Supplier and Cold Holding (Temperature)	Norovirus, Vibrio, Hep A,			
Sushi	Acidification e.g. rice/ condiments (pH)	Salmonella, B cereus, C perfringens			
RTE Foods	Vacuum packing RTE foods (Modified Atmosphere)	Listeria, Salmonella, E coli,			
Homemade flavoured oils or preserves	Vegetables in oil (pH)	C botulinum			

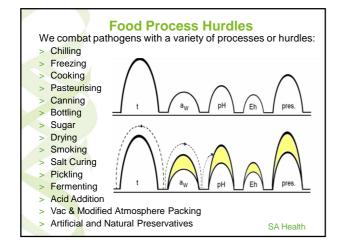
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#### **Good Manufacturing/Hygiene Practices**

- > Hand washing
- > Health of Handlers
- > Reputable Suppliers
- > Protection from Contamination
- > Cleaning and Sanitation
- > Waste Disposal
- > Pest Control

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#### **Exercise 2**

Consider the following methods of food preparation and presentation and how it alters the risk of the food.

- Consider the control measures that influence the food safety risk.
- > Rank each food in order of risk



#### HANDOUT

Rogan Josh Lamb Curry served with rice

Served to order from a restaurant

Prepared in bulk the same restaurant, stored and distributed in bulk containers to be reheated and served individually from fast food outlets

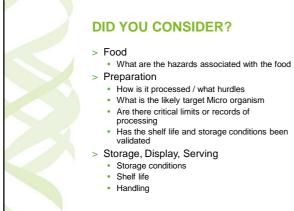
Vacuum packaged in individual 400 gram packs for sale in supermarkets

#### HANDOUT 2-3

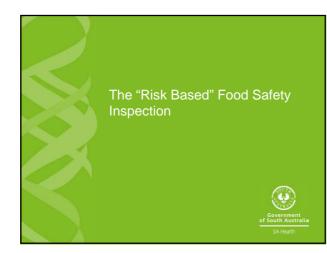
Poached eggs (with runny yolks) served from bain marie in Scouts jamboree kitchen

Mayonnaise made in restaurant (using raw eggs) used over two days

Carbonara sauce made with bacon, fresh garlic, cream and eggs sealed in plastic tubs with 28 day shelf life



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- recognising food hazards
  - ProcessBusiness sector
  - > Determine what controls are required for those risks

#### THEN

- Inspect the business against the risks being controlled by:
  - Observe (are operators taking temperatures)
  - Ask open questions (what temperature are you looking for?)
  - Confirm by taking your own measurements (use your own clean & sanitised probe)
  - Records are available and accurate

#### **Risk Based Inspection**

- > Inspection Principles
- > Preparing for Inspection
- > Conducting Inspection
- > Review Findings
- > Corrective Action
- > Follow Up

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## Inspection Principles



- A risk-based approach should underpin all aspects of the food premises inspection.
- The nature and frequency of inspections are determined based on the **food safety risk associated with the food business**. A combination of the risk classification and the outcomes of
- A combination of the risk classification and the outcomes of compliance assessments for the food business should be used to determine the ongoing frequency of inspections.
   An understanding of the foods handled by the food business,
- An understanding of the foods handled by the food business, the processes involved and the timing of these processes will enable the inspection to be scheduled so that the authorised officer can observe and assess these processes.
- Elements of a food business considered to be high risk should be assessed at each inspection (e.g. temp control).
   Inspections focus on potential risk of food handling
- Inspections focus on potential risk of food handling processes and operations rather than compliance with prescriptive structural standards.
- The food safety practices in place to manage risks for particular foods that require specific controls (e.g. egg products) should be assessed.

#### **Inspection Principles**

From the SA Health/LGA Food Act MOU Work Plan

#### > Risk Based

- Inspection activities are based on the food safety risk associated with the food business
- The Risk Classification System will be used to determine the food safety risks associated with each business.
- Scope
- An assessment of a food business' ability to manage food safety and comply with food safety standards;
- A focus on food handling processes and operations. Approach
- Inspections focus on food handling processes and operations rather than compliance with prescriptive structural standards.

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## **Preparing for** Inspection



- > Inspection time when do you go?
- Operational Steps: Know the products and the processes conducted at the business:
  - Receipt •
  - Storage / thawing
  - Food Preparation & Handling . Cooking and Reheating •
  - Cooling
  - Transport (offsite)
  - Service and delivery
- High Risk Foods
- Use the Menu or Product List for Review
- Previous Compliance >
- Inspection reports, complaints, recalls, testing

		epier Selantic	Nario; e	s paragest extracting to a state of the "second Mu, canadar. Compared Topology & Second State of the Seco	W Milest days this improved an of
	Receiving			Recalls Food Disposel	What does this inspection of
1	Protection from contamination (http://323)		18	Food for disposal not saldivical process mick v123	
2	kientification/happability of food p.p. w112			Health, Hygiene & Knowledge	Caterer (Priority 1) tell you
3	Temperature control of PHF (K), ee (K et 22)		19	Health of food handlers - responsibilities (NV 222)	about.
	Storage		20	Hypiece of food handlers - responsibilities (1. 16 of 32.8	about:
+4	Protection transmission (Chapter 2012)		21	Food business + responsibilities (H)H with 2	
5	Appropriate environmental conditions occur w122	2	22	Adequate handwashing ballities (1-4122 we in 4123)	
6	Temperature control of PHF inc traces (s); w22.2		25	Food handlerg - skills & knowledge () strata	
	Processing			Premises and Hygione	<ul> <li>Inadequate cooking</li> </ul>
	Safe and suitable load price #122]		26		· mauequate COOKINg
1	Protection from contamination (1994) with a		25	ChuningSumitising of lost context surfaces (1-#122)	temp/time
3			25	Subbity and mantenance of premises, fittings	temp/time
-10			_	and equipment of a 122 we 196 Fill 1 a 122 h	
- 15	Cooling of PHF (2)(set 122)		27	Temperature measuring device ct #12/3	<ul> <li>Improper Holding/ Time ar</li> </ul>
12	Reheating of PHF (5 (6 4722)		25	Use of "Single use" forms (5-4123)	
	Cisplay		29	Control of animals and pesta-priviliza	<ul> <li>Temperature</li> </ul>
	Protoction from contamination (R.), R. R. 100-4122		30		romporataro
54	Temperature centrol of PMF and, frozen .ett.uct.za		я	Disposed of sewage and wanter watter p.or.12.0	
	Packaging		12	Storage of refuse & weightable watter (0.0120)	<ul> <li>Poor Personal Hygiene</li> </ul>
15	Appropriate modernals and processes a vision		30	Adequate ventilation and lighting (111-6122)	i con i crocina riygione
	Transportation and Distribution		54	Storage of personal effects (chemically of units)	
	Protoclian from confamination (%)(-0.122)		15	Adequate tailed baildes (m/122)	<ul> <li>Contaminated Equipment/</li> </ul>
17					
*				ON TO BE TAKEN	Protection from
14	Provide poper to	ed or	o.	snop at handwork j	
	100311	87		V.	Contamination
-	Clean Alcar alon	g dias	( (	iall Junctions	Containination
	Rearganise & 2000	2 an de	10	the state to not	
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	and dy n	CASE I	6.6		
				6 SCAN	SA Heal

#### Arrive at the Business

 On arrival advise the senior business staff member/proprietor of your identity and your intentions.

- Observe all security, workplace health and safety, and food
- safety policies in operation on the site.> Establish an open dialogue with the person in charge:
  - Identify if there has been any changes to management, key personnel, menu items, processes, suppliers etc.;
  - Identify key personnel;
  - · Address any issues requiring follow up from last visit
  - Identify processes that are occurring at the time of the visit be prepared to change your plan based on the activities occurring;
  - Identify hazardous foods and processes on site during the visit.

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# Conducting the Inspection



#### **Inspection Dilemma**

- > It is important to recognise that there is a trade off between interviewing during peak times of the day where observation of practice is more likely, but ability to participate is lower; and
- Interviewing during quieter periods where practice is less likely to be observed, but participation is more likely.

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#### **Inspection Priorities - The 4 P's**

#### 1. Products

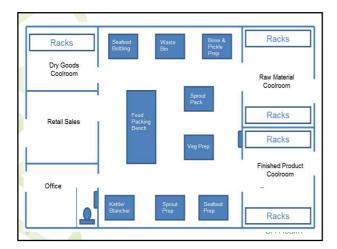
- Ingredients, Additives, End product, Intended use
- 2. Processes
- Equipment, Preservation method, Packaging 3. People
  - Personal hygiene, Protective clothing, Working with illness, Skills & knowledge
- 4. Plant
  - Cleaning & Sanitising, Maintenance, Pest Control, Layout

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#### **Exercise 3**

You are asked to conduct a review of a food business that manufactures the following foods.

- Pickled/acidified seafood, presented in glass jars (squid, octopus, garfish, tommy ruff, mussels and scallops, vinegar salt, pepper and spices. With a 6 month shelf life.
- Sushi, fresh presented on trays for distribution to fast food outlets. (rice, fresh tuna, cooked chicken, prawns, octopus, dried seaweed, cucumber, lettuce, mayonnaise, wasabi sauce, soy sauce, vinegar. Shelf Life 2 days
- Vacuum packaged sprouts, bean sprouts, alfalfa, mustard sprouts, Shelf life 6 days.
- Surrouts, Sheri me o days. All these products are made within the one facility. 1. Please conduct an assessment of the food safety hazards associated with manufacture and sale of these foods. Diagram attached.
- Suggest control measures or actions that the business could adopt to minimize food safety risks. 2.





#### **Confirm the Priorities**

> High Risk Foods

- Focus on HR food processes
- > Operational Steps: What activities are conducted at the business e.g.
  - Receipt
  - Storage / thawing
  - Food Preparation & Handling
  - Cooking and reheating
  - Cooling
  - Specific process controls i.e. pH, shelf life
- > Structural and GMP

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#### **Activity Review**

#### WHAT -

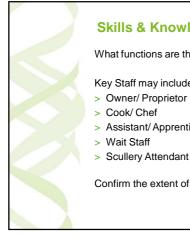
- > would be the most hazardous foods/processes to focus on?
- > controls do you expect the business to have in place

#### WHERE

- $\,>\,$  are the controls expected to be in the process WHEN
- > will the business use the controls
- HOW
- > will the business monitor the controls

#### WHO

> needs to know



**Skills & Knowledge** 

What functions are they responsible for

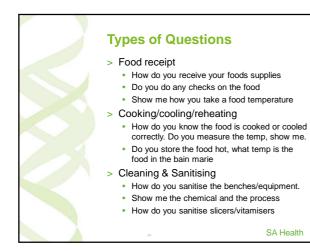
	•Receiving/Suppliers
ey Staff may include:	•Cooking Temperature
Owner/ Proprietor	•Cooling Temperature
Cook/ Chef	•Hot/ Cold Holding
Assistant/Apprentice	•Personal Hygiene
	•Hazardous Foods
Wait Staff	Protection from

Contamination •Cleaning & Sanitising

Confirm the extent of their role!

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#### **Typical Techniques** > START AT THE BEGINNING - Walk, Watch, Ask, Listen Larger businesses with potential for cross contamination, should ask you to move from clean to dirty (in reverse) > Knowledge (questions) vs Practice (obs) Knowledge not generally translated into practice > Assess with: Open questions: WHO, WHERE, WHY, WHAT, • HOW; OBSERVATIONS of staff movements & behaviours, products or suppliers • CONFIRM: Show me (temperatures, pH etc.) SA Health



#### **Evidence and Observation**

- Inspections should be performed when food handling activities are being undertaken.
- > Ensure any handling and processing being performed is observed to assist with determining compliance.
- > Where you may not be able to observe a process to assess food safety - ask staff to explain the process.
- Evidence used to make decisions should be documented.

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#### **Assessment Difficulties**

- > Language barriers
- > Food handlers trained to say the right things, but not understanding
- > Inspection during preparation of HR foods
- > Weekend operations
- > Open questioning techniques
- > Food technology knowledge
- > No records kept
- > Limited cost effective training options

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### Morning Tea

#### **Exercise 4**

You have commenced a Food Premises Inspection

> You have been provided with a 4 Scenario's

#### Identify

- Foods that you consider to be high risk and provide your reasons
- Which food you consider to be the Highest Risk and would be the priority to focus on during the inspection.

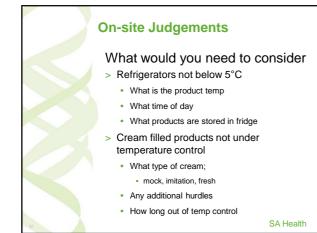
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## Review Inspection Findings

#### **On-site Judgements**

> Public health risks (critical)

- Intended to achieve immediate correction of an out of control risk factor that poses immediate harm to the consumer.
- These will usually be operational and can be addressed immediately.
- Decisions about immediate risk and remedial action
- Is onsite corrective action an option
  If so what?
- When is 'reheating' as an onsite corrective action suitable?
- Non compliances (major & minor)
   Short term or long term remedial action



#### **On-site Judgements**

Some questions to ask yourself:

- > Will the food permit survival of pathogens &/or toxin production before or during preparation?
- Has the food been subjected to any hurdles? e.g. pH, reduced water activity

> Is this food associated with outbreaks?> Has the business demonstrated control of:

- Personal hygiene
- Temperature control
- Temperature control

 Cross contamination/ protection from contamination IDENTIFY THE HAZARD AND THEN STOP THE OUT OF CONTROL RISK FACTOR IMMEDIATELY



#### Concluding the Inspection

#### > Negotiating

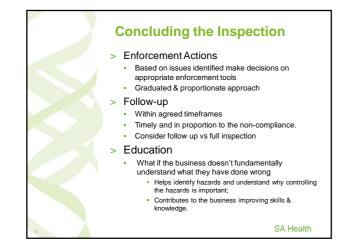
- Communication with the owner/manager is vital
- Discuss positives and negatives
- · Explain risks and consequences
- · Seek commitment to take corrective action

#### > Reporting

- · Record only issues that can be substantiated
- · Consider that your evidence is sound

#### · Prioritise issues

- Immediate food safety risk has unsafe food been prepared/sold? Will a situation result in likelihood of unsafe food? - immediate action
- May become a risk there is no evidence that food is unsafe but conditions exist – Short timeframe for resolution.
- Not likely to affect food safety Make observations not recommendations
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#### **Exercise 5**

You have commenced your next routine food premises inspection at the same businesses as Exercise 4

- > According to the frequency assigned, it is now time to undertake another routine Food Premises Inspection. You have been on site and note that a new menu has been prepared and has been in use for a period of time.
- Considering the previous inspection outcomes, identify
   Any menu/process changes and how these changes might impact on the risk focus.
  - Which food you consider to be the Highest Risk and would be the priority to focus on during the inspection.



#### Change in process at a VP facility:

Moved from hot set custard to cold set custard – no risk assessment performed. Listeria found in custard.

#### Business capacity:

Large scale event, but facility too small to cope. Evidence of cross contamination at Salmonella outbreak investigation.

#### Time allocation:

 Businesses under pressure to get food out on time – undercooked food responsible for Salmonella and Campylobacter

#### False record keeping:

 Cooling temperatures 'recorded' – they are the same temperature at the same time for each batch. Food doesn't work like that!

