

Operational Prerequisite Programme Training Guide



Operational Prerequisite Programmes

Operational prerequisite programmes are put in place for significant hazards that are not controlled in the HACCP plan at Critical Control Points.





ISO 22000 Requirement for Prerequisite programmes

When selecting and/or establishing PRP(s), the food safety team will need to consider and utilize appropriate information such as statutory and regulatory requirements, customer requirements, recognized guidelines, Codex Alimentarius Commission (Codex) principles and codes of practices, national, international or sector standards.

Prerequisite programmes will need to be appropriate, implemented across the entire production system and be approved by the food safety team.



Operational Prerequisite Programmes

An operational PRP is defined in ISO 22000 as a prerequisite (PRP) identified by the hazard analysis as essential in order to control the likelihood of introducing food safety hazards to and/or the contamination or proliferation of food safety hazards in the product(s) or in the processing environment











Identifying Operational Prerequisite Programmes

Use our unique HACCP Calculator ISO 22000 to help identify your Operational PRPs:

- Use the simple steps to assessing Hazard significance generating a rating of 1 – 9
- The calculator automatically highlights significant hazards which require critical control point assessment
- Significant Hazards that are not included in your HACCP plan should be controlled by Operational Prerequisite programmes

Refer to the HACCP Training Guide - ISO 22000 Module 2014, ISO 22000 HACCP Calculator Instructions and the HACCP Calculator to assist in your assessment.



Identifying Operational Prerequisite Programmes

We will now go through the steps to identifying Operational Prerequisite Programmes.

Refer to the HACCP Training Guide - ISO 22000 Module 2014, ISO 22000 HACCP Calculator Instructions and the HACCP Calculator to assist in your assessment.



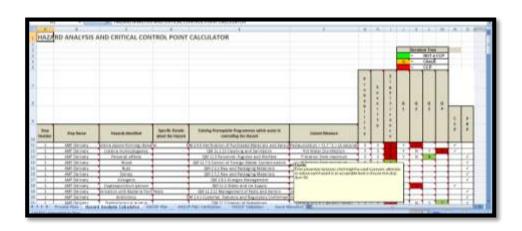


Hazard Assessment

7.4.3 Hazard assessment

A hazard assessment should be conducted to determine, for each food safety hazard identified, whether its elimination or reduction to acceptable levels is essential to the production of a safe food, and whether its control is needed to enable the defined acceptable levels to be met.

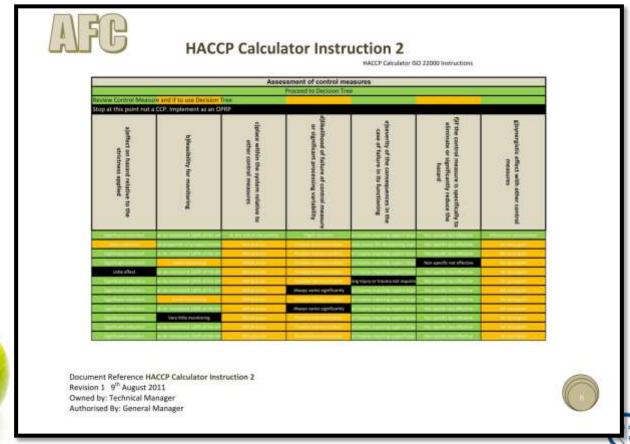






ISO 22000 Implementation Classification of Control Measures

The ISO 22000 HACCP Calculator can be used to help select and categorize control measures:

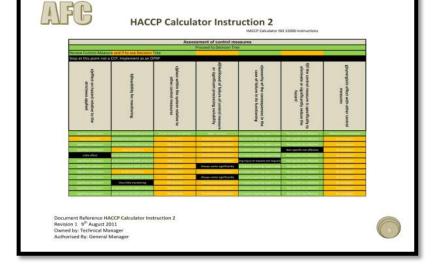




ISO 22000 Implementation Classification of Control Measures

Control measures will not be subject to the next stage and determining if they are critical control points if the food safety team decides based on their assessment as per Clause 7.4.4 that this is not necessary or feasible. These control measures will be part of the Operational Prerequisite Programme Plan.







ISO 22000 Selection and Categorization of Control Measures

e) Assess the severity of the consequence(s) in the case of failure in its functioning:

a	A	8	C	F	G	:: H	1.	d	100	1	M	N.	0	A.P.	.0
	HAZA	RD ANALYSIS A	AND CRITICAL CONTROL P	OINT CALCULATOR											
Ī															
l								8 1		_			asures		
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ļ														ion Tre	- 1
ł					-	_		Stop at	this po	ant not	a CCP.	⊿ple.	ent as a	n-OPRP	
03					P r o b a b i	5 e v e r 1	s g n i f i	a) effect on hazard relative to the strictness applied	b)feasibility for monitoring	c)place within the system relative to other control measures	or significant processing	e)severity of the consequences in t case of failure in its functioning	This the control measure is specifical institute or significantly reduce	g)synergistic effect with of measures	1
Į,					i	1	a	d e	itori	H 2	control me ng variabil	ence	ne cti	other	
,	Step Number	Step Description	Hazards Identified	Control Measure	t Y	Y	e e	othe	Su.	stive to	control messare ng variability	quences in the functioning	cifically to	control	
	24	Pasteurisation	Survival of pathogens due to insufficient temperature	Automatic monitoring on pasteuriser and divert at 87 °C	3	3	-	ites the	red 10	end of t	risk of	quiring	ned to	syners	- 1
	24	Pasteurisation	Survival of pathogens due to insufficient holding time/excessive flow rate	Maximum flow rate verified	2	3	6					- 3			
l	27	Culture Addition/Mixing	Contamination with foreign bodies by poor hygienic practises by the operator	Trained competent operator following hygienic procedures	2	2	4								
	27	Culture Addition/Mixing	Contamination with hair by poor hygienic practises by the operator	Trained competent operator following hygienic procedures	2	2	4								
	28	Storage Yoghurt Tank	Growth of Pathogens	Work instruction in place and adhered to/time & product pH profile checked to	3	3		e redu	n of pro	nd of t	failure	fe-thre	ific but	dsyner	1947
	28	Storage Yoghurt Tank	Growth of Pathogens & production of toxins	Work instruction in place and adhered to/time & product pH profile checked to	3	3		e redu	n of pro	end of t	faifure	fe-thre	fic but	dsyner	Ì
	28	Storage Yoghurt Tank	Contamination from broken site glass	Check at start up/breakage procedure		4		e reduc				18	1/2	7 8	



ISO 22000 Selection and Categorization of Control Measures

So now you will have assessed the control measures as per ISO 22000 Clause 7.4.4.

Based on this assessment of control measures there are 3 results:

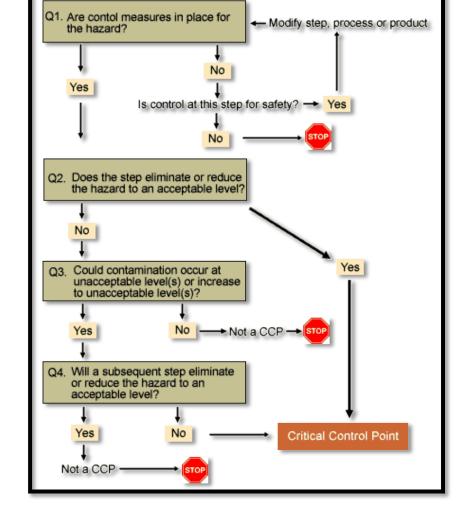
- 1. Proceed to Decision Tree
- 2. Review Control Measure and if to use Decision Tree
- 3. Stop at this point not a CCP. Implement as an OPRP or consider alternative control measures.





HACCP Decision Tree

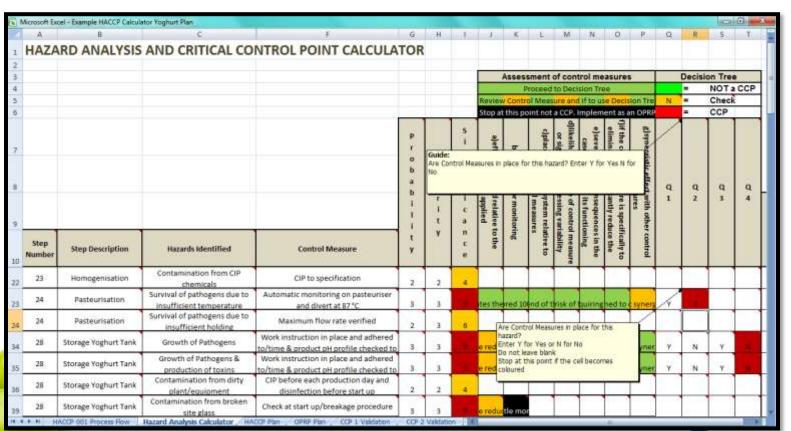
Now in order to decide if a Hazard control is a Critical Control Point and in the HACCP plan we use the decision tree to help us.





Determine the Critical Control Points (CCPs)

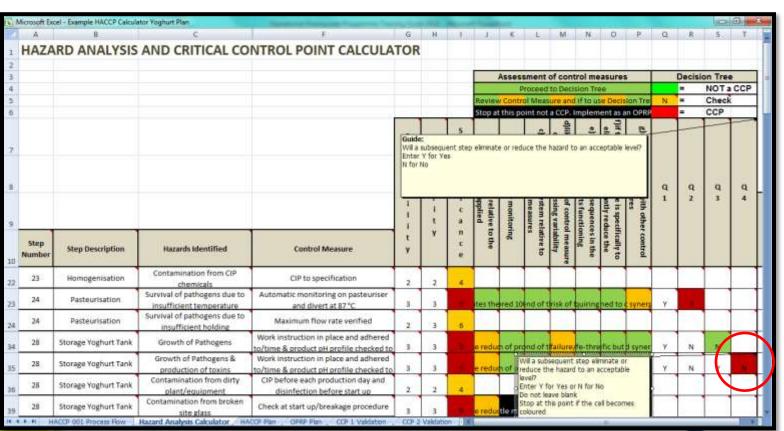
Q1 Are control measures in places for the hazard? Enter Y or N in the appropriate box.





Determine the Critical Control Points (CCPs)

A red cell indicates a CCP.





ISO 22000 Implementation Classification of Control Measures

The food safety team have now decided if control measures are to be part of Operational Prerequisite Programmes or the HACCP plan.

<u>Critical Control Points</u> identified are included in the HACCP plan.

<u>Significant hazards</u> that are not CCP's should be controlled by Operational Prerequisite Programmes.

Other hazards identified in the <u>Preliminary Hazard List</u> should be controlled by Prerequisite programmes.

See the summary in the columns U – W on the next slide.



Validation of CCP's and Operational Prerequisite Programmes

HACCP Validation - CCP 1							
		Б.					
Product Category	Pasteurisation						
Step Number	24						
Hazard		of pathogens					
Control Measure		risation temperature Dis applied					
Validation Methods	Applicable Yes No		Comments				
Third Party Scientific Validation	V		*CODEX guidance				
Historical Knowledge	√						
Simulated Production Conditions							
Collection of Data in normal production							
Admissible in industrial practices	√						
Statistical Programmes							
Mathematical Modelling							
Conclusion							
Internal Validation Required?		√					
Comments	Minimum requirements for the pasteurisation of milk are 71.7* for 15 seconds. This plant hold product for 300 seconds.						
CCP Confirmed	>						
Authorised by(Name):							
Signature:							
*CODE OF HYGIENIC PRACTICE FOR MILK AND MILK PRODUCTS CAC/RCP Process management Performance criteria As C. burnettii is the most heat-resistant non-sporulating pathogen likely to be present in milk, pasteurization is designed to achieve at least a 5 log reduction of C. burnettii in whole milk [4% milkfat].							
Process criteria	·						
According to validations carried out on w conditions are those having bactericidal eff of the milk to 72 °C for 15 seconds (continu minutes (batch pa	ects equiv ous flow p	valent to k pasteuriza	neating every particle				

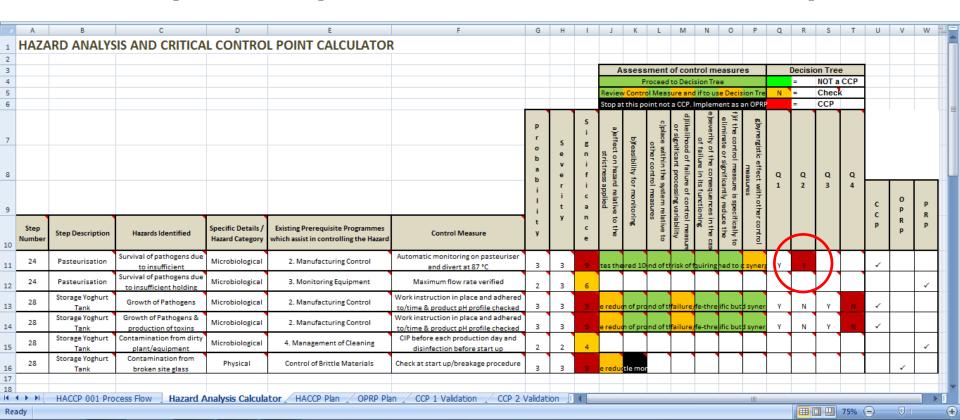
HACCP Validation - OPRP 2						
,	<u> </u>					
Product Category	Yoghurt Tank					
Step Number	28					
Hazard	Contamination from glass/porspox					
Control Measure	С	Checking the Safety Glazz				
Validation Methods	Applicable Yes No		Comments			
Third Party Scientific Validation						
Historical Knowledge						
Simulated Production Conditions						
Collection of Data in normal production						
Admissible in industrial practices	>		Lighting Light fixtures shall be protected to ensure that materials, product or equipment are not contaminated in the care of productor.			
Statistical Programmes						
Mathematical Modelling						
Conclusi	on					
Internal Validation Required?		- 1				
Comments	contan	reduce th nination."	rols are sufficient to e liklihood of The significance of educed by product			
OPRP Confirmed	J					
Authorised by(Name):						
Signature:						
PRP Verification required	Start up chocks to onsurosafoty glass is intact prior tostart up - YGR 005 Yoqurt Pastourizor Loq					
PAS 220:2008 10.4 Physical contamination and/or brittle material are used, period requirements and defined procedures in cases shall be put in place.	~					
Glass breakage records shall be ma	✓					
Based on hazard assessment, measures sha to prevent, control or detect potential c	~					



ISO 22000 HACCP - CCP Example

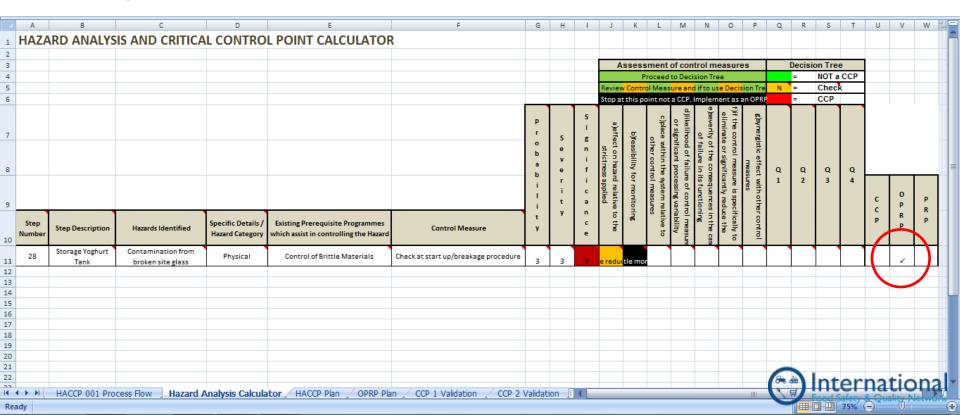
Q2 Does the step eliminate or reduce the hazard to an acceptable level?

Yes - Y is entered into the box which turns red. We stop at this point as it is a critical control point



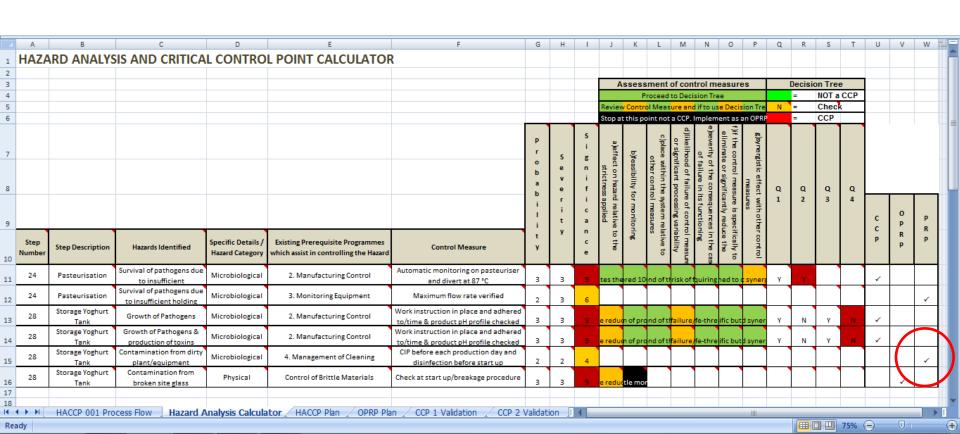
ISO 22000 HACCP - OPRP Example

So let's look an example where a control measure is categorised not as a critical control point but an Operational Prerequisite Programme.



ISO 22000 HACCP - PRP Example

CIP daily and before use is implemented as a Prerequisite procedure.





That's the end of this training package

Thank you for attending

