

UtahStateUniversity















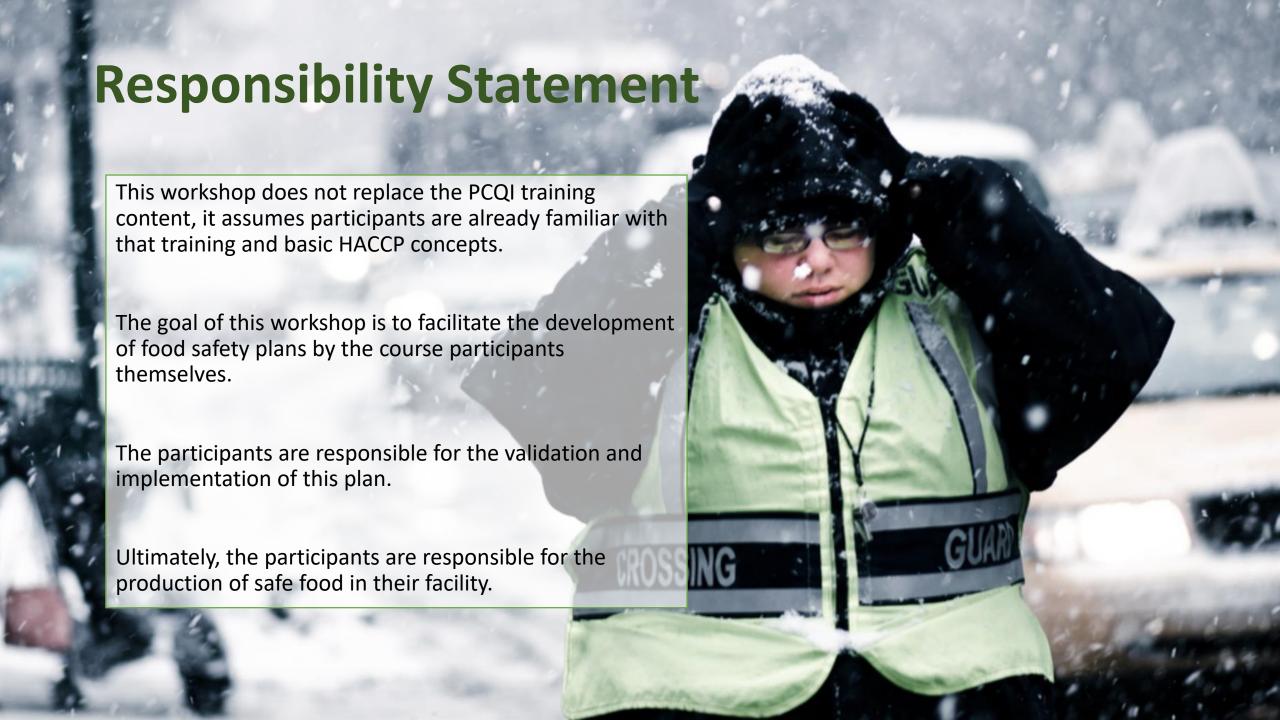


Course Materials

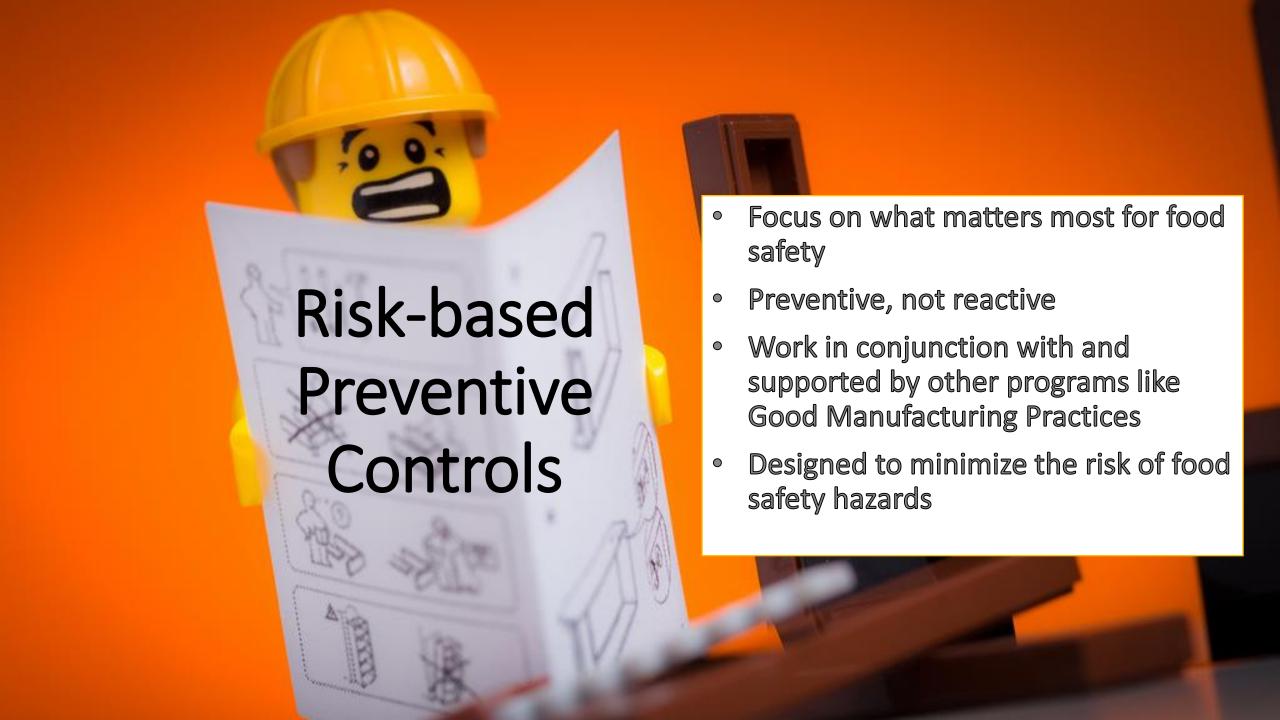
- Agenda
- Agenda Overview
- Manual Content and Materials
- Digital Materials

ARTISAN DAIRY FOOD SAFETY: FSMA & FOOD SAFETY PLAN BASICS

THURSDAY, SEPTEMBER 02, 2021			
10:45 am	FSMA and Food Safety Plan Overview		
11:15 am	Hazards and Hazard Analysis – Overview and Preliminary Documents		
11:45 am	Hazards and Hazard Analysis – Types and Process		
12:15 am	Q&A: Discussing the Hazard Analysis with Food Safety Experts		
12:30 pm	Lunch		
1:30 pm	Preventive Controls: Process Control		
2:05 pm	Preventive Controls: Sanitation Controls		
2:40 pm	Preventive Controls: Allergens		
3:15 pm	Overview of Environmental Monitoring		
3:50 pm	Preventive Controls: Supplier Controls		
4:25 pm	Q&A with Food Safety Experts and Dairy Producer(s)		
5:00pm	Adjourn		

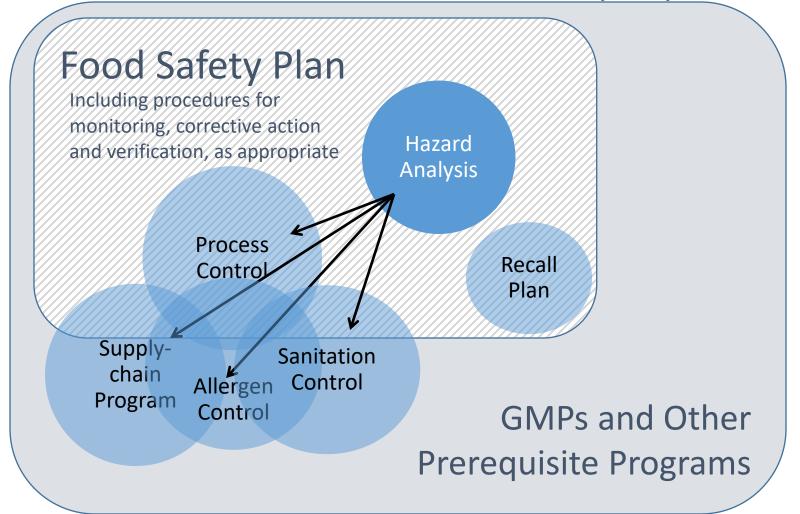




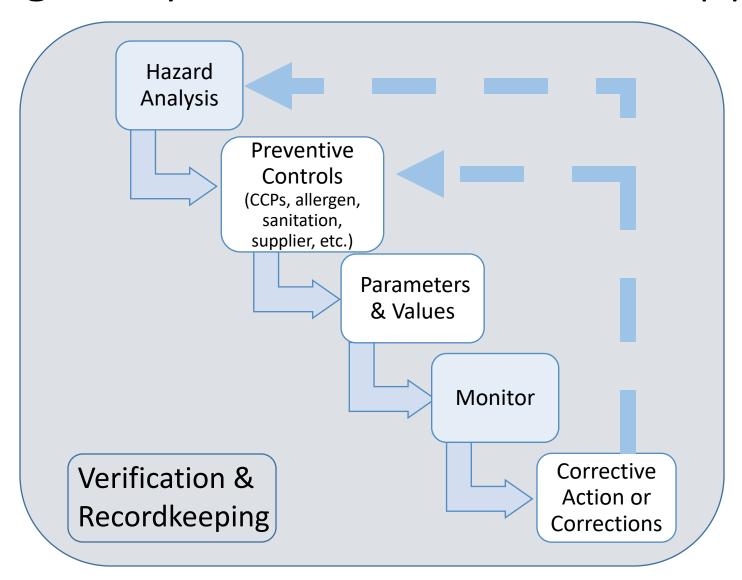




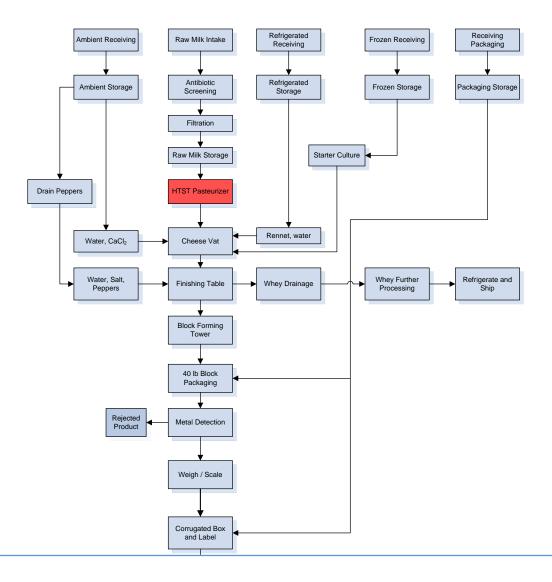
Update View of the Food Safety Systems



Creating an Systematic Risk-based Approach







Identifying Controls for Hazards



- A qualified individual who has successfully completed training in the development and application of risk-based preventive controls at least equivalent to that received under a standardized curriculum recognized as adequate by FDA or is otherwise qualified through job experience to develop and apply a food safety system.
 - 21 CFR 117.3 Definitions

Definitions

- Food Safety Plan
 - A set of written documents that is based on food safety principles; incorporates hazard analysis, preventive controls, supply-chain programs and a recall plan; and delineates the procedures to be followed for monitoring, corrective actions and verification.
 - Adapted from 21 CFR 117.126
- Food safety system
 - The outcome of implementing the Food Safety Plan and its supporting elements

Contents of a Food Safety Plan

Required

- Hazard analysis
- Preventive controls*
 - Process, food allergen, sanitation, supply-chain and other
 - Recall plan*
- Procedures for monitoring, corrective action and verification*

Very Useful

- Facility overview and Food Safety Team
- Product description
- Flow diagram
- Process description

* Required when a hazard requiring a preventive control is identified

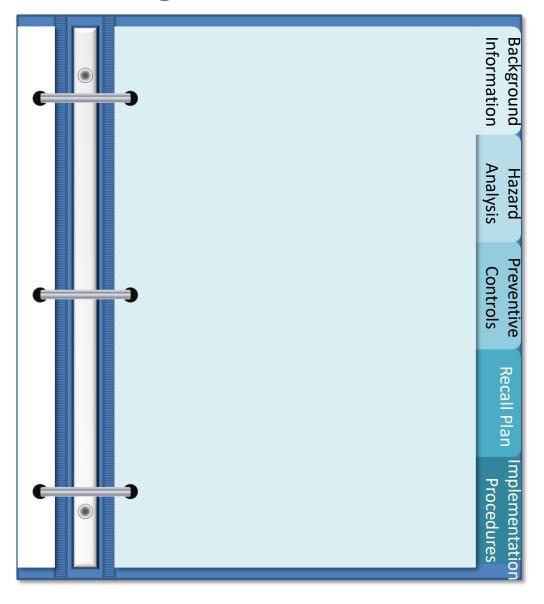
Scope of the Food Safety Plan

- Specific to a facility
 - Preventive controls specific to a product and process
- Products may be grouped if hazards and controls are managed generally the same
- Define and address:
 - Specific product(s) and process(es)
 - Part of the food chain to be studied
 - Biological, chemical (including radiological) and physical hazards

Food Safety Plan Format is Flexible

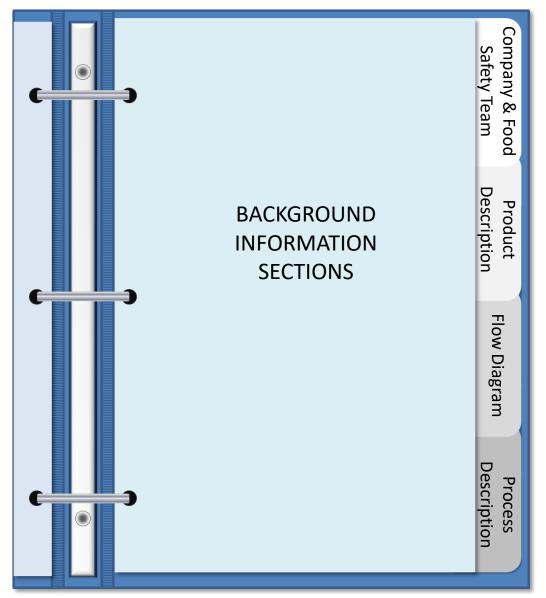


Main Organizational Sections



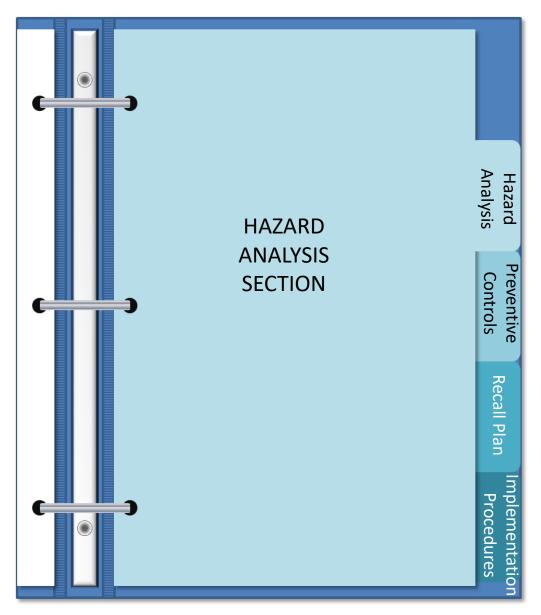
- 1. Background information optional
- 2. Hazard analysis
- 3. Preventive controls
- 4. Recall plan
- Implementation procedures

Background Information



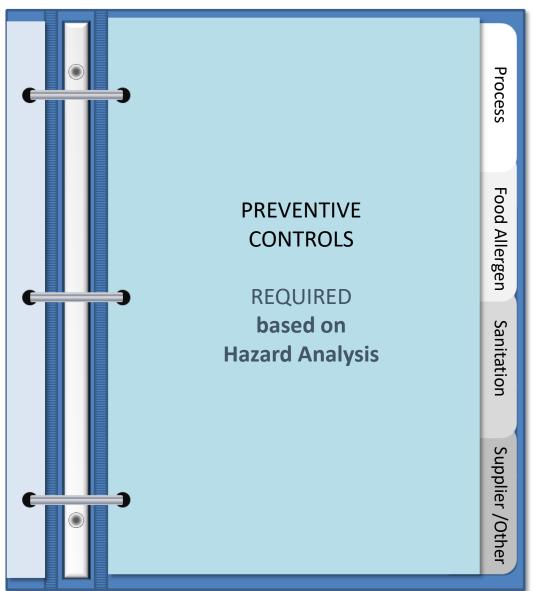
- Useful information to organize the plan:
 - Facility overview and Food Safety Team
 - Product description
 - Flow diagram
 - Process description

Hazard Analysis – Required



 Drives decision making for the controls that must be included in the Food Safety Plan

Preventive and Other Controls May Include:



Process preventive controls

Process specific controls discussed in Chapter 9

Food allergen preventive controls

- Accurate labeling
- Cross-contact prevention

Sanitation preventive controls

- Environmental pathogens
- Cross-contamination, crosscontact

Other preventive controls

If needed

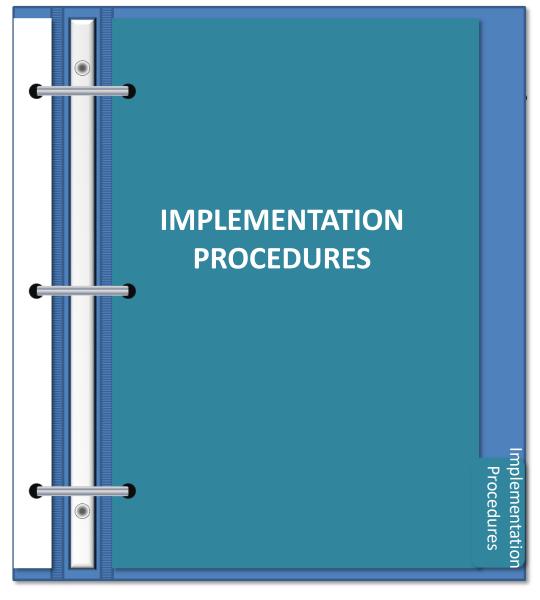
Supply-chain preventive controls

Recall Plan



- Required when a hazard requiring a preventive control is identified
- What to do when something goes wrong

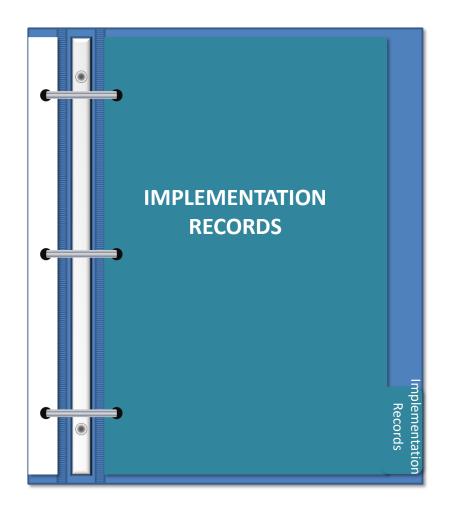
Implementation Procedures



Examples that may be required include:

- Validation studies
- Procedures for monitoring, verification and corrective action

Implementation Records



- Preventive control monitoring data
- Corrective actions taken
- Verification (if applicable) activities
- Validation documentation (if applicable)
- Supply-chain program implementation
- Applicable training
- Retained at least 2 years.
- Revaluate the whole food safety at least every 3 years.





idanceDocumentsRegulatoryInformation/UCM526507.pdf

IV. WHO IS EXEMPT FROM THE REQUIREMENTS FOR HAZARD ANALYSIS AND RISK-BASED PREVENTIVE CONTROLS OR SUBJECT TO MODIFIED REQUIREMENTS?

and Preventive Controls.

Table 2Exemptions and Modified Requirements for Part 117					
Exemption or Modified Requirement	Conditions				
Qualified Facilities – businesses (when including the sales by any subsidiaries, affiliates, and any entity of which the facility is a subsidiary or affiliate) with average annual sales of less than \$500,000 with at least half the sales to consumers or to local retailers or restaurants or Indian reservation (within the same state or within 275 miles) or very small businesses as defined below.	To be eligible for modified requirements, a qualified facility is required to notify FDA about its status; and attest that it is either: 1. Addressing identified hazards through preventive controls and monitoring the preventive controls; or 2. Complying with applicable <i>non-Federal</i> food safety regulations, and notifying consumers of the name and complete business address of the facility where the feed was manufactured as precessed.				
Very small businesses (including any subsidiaries or affiliates) averaging less than \$1,000,000 (adjusted for inflation) in both sales of human food plus the market value of human food that is manufactured, processed, packed, or held without sale (e.g. held for a fee), per year during the 3-year period	where the food was manufactured or processed. A qualified facility must submit these notifications to FDA during the same two year timeframe that the facility is required to update its facility registration. An otherwise Qualified Facility that does NOT notify				
nreceding the current calendar year	FDA is subject to the requirements for Hazard Analysis				

(21 CFR 117.5(a))

preceding the current calendar year.

21 CFR Part 117.5 (a) Except as provided by subpart E of this part, subparts C and G of this part do not apply to a qualified facility. Qualified facilities are subject to the modified requirements.

- Subpart A: General Provision
- Subpart B: Current Good Manufacturing Practices
- Subpart C: Hazard Analysis and Risk-Based Controls
- Subpart D: Modified Requirements
- Subpart E: Withdrawal of Qualified Facility Exemption
- Subpart F: Requirements Applying to Records the must be Established and Maintained
- Subpart G: Supply Chain Program

3. When must I submit my first attestation to FDA to comply with the Preventive Controls for Human Food Rule?

You must submit your first attestation to FDA:

- By December 17, 2018, if your facility begins manufacturing, processing, packing, or holding food before September 17, 2018; or
- Before beginning operations, if your facility begins manufacturing, processing, packing, or holding food after September 17, 2018. Google "Qualified Facility Attestation"

(21 CFR 117.201(c)(2)(i)).

Instructions and Guidance

https://www.fda.gov/Food/GuidanceRegulation/FoodFacilityRegistration/QualifiedFacilityAttestation/ucm496263.htm

Form

https://www.fda.gov/downloads/AboutFDA/ReportsManualsForms/Forms/UCM620461.pdf



Food Safety Plan Common Challenges

- Think through your Process Flow: Processing steps vs process description.
- Don't over think your hazards.
- Remember it is a dialog, if you feel strongly justify your case in writing and talk with your inspector.
- I am a small cheese maker how to deal with my suppliers?
 - Ingredients Do you do diligence buy from reputable companies or develop your own kill step
 - Cleaning Chemicals Look for another supplier
- Environmental Monitoring
 - Start small, start from the outside in.
- Paperwork K-I-S



The FDA Top 6 - 2019

- 1. 21.CFR.117.130(a)(1) Hazard Analysis: Identification of Hazard
- 2. 21.CFR.117.126(a)(1) Food Safety Plan
- 3. 21.CFR.117.165(b) Sanitation Controls Verification Procedures: Establish & Implement
- 4. 21.CFR.117.145(a) Process Controls: Monitoring Procedures: Establish & Implement
- 5. 21.CFR.117.145(a) Sanitation Controls Verification Procedures: Establish & Implement
- 6. 21.CFR.117.135(a)(1) Preventive Controls: Identify

Proposed Food Traceability List

	Foods	Description		
	Cheeses, other than hard cheeses	Includes all cheeses made with either pasteurized or unpasteurized milk, other than hard cheeses. Includes soft ripened/semi-soft cheeses (e.g., brie, camembert, feta, mozzarella, taleggio, blue, brick, fontina, monterey jack, and muenster) and soft unripened/fresh soft cheeses (e.g., cottage, chevre/goat, cream, mascarpone, ricotta, queso blanco, queso fresco, queso de crema, and queso de puna).		
	Shell eggs	Shell egg means the egg of the domesticated chicken		
	Nut butter	Includes all types of tree nut and peanut butters; does not include soy or seed butters		
	Cucumbers (fresh)	Includes all varieties of cucumbers		
	Herbs (fresh)	Includes all types of herbs, such as parsley, cilantro, basil, etc.	ESMA Propo	
	Leafy	Includes all types of leafy greens, such as lettuce, (e.g., iceberg, leaf and R	FSMA Propo	

watercress, chard, arugula, spinach, pak choi, sorrel, endive, etc.



osed Rule for Food Traceability

The FDA is proposing to establish additional traceability recordkeeping requirements (beyond what is already required in existing regulations) for persons who manufacture, process, pack, or hold foods the Agency has designated for inclusion on the Food Traceability List. The proposed rule, "Requirements for Additional Traceability Records for Certain Foods" (Food

- Federal Register Notice
- Docket No. FDA-2014-N-0053
- Public Meetings page

Content c 01/12/202

Regulated Food & Bev

Traceability Proposed Rule) is a key component of the FDA's New Era of Smarter Food Safety Blueprint and would implement Section 204(d) of the FDA Food Safety Modernization Act (FSMA). The proposed requirements would help the FDA rapidly and effectively identify recipients of those foods to prevent or mitigate foodborne illness outbreaks and address credible threats of serious adverse health consequences or death. The comment periods for the proposed rule and information collection provisions have been extended and will now be available for public comment until February 22, 2021.

greens

Practical Tools???



Resources

The Safe Cheesemaking Huh

www.safecheesemaking.com

Develop Your Foundational Food Safety



https://units.cals.ncsu.edu/foodsafety/courses/

This online course was developed to assist artisan and farmstead cheese-makers in developing their food safety programs and complying with food safety regulations and standards. It was developed by a collaborative group of food safety and cheese experts from the University of Wisconsin-Madison, University of Connecticut, Cornell University, and NC State University. This course is intended to equip artisan and farmstead cheese-makers with basic knowledge about food safety concepts and serve as a primer for further training programs such as how to develop and implement a preventive controls food safety management plan. The course begins with a welcome letter and orientation to online learning. There is a series of five lessons, each of which consists of an interactive learning module with professional voiceover, video, and an accompanying quiz:

- Lesson 1: Importance of Food Safety
- Lesson 2: Regulations and Standards
- Lesson 3: Food Safety Hazards
- Lesson 4: Good Manufacturing Practices and Process Controls
- Lesson 5: Environmental Pathogen Monitoring and Testing

The cost of developing this course was funded by the <u>Innovation</u> Center for U.S. Dairy.



The Dairy Science and Sanitation Workshop is tailored to dairy processing personnel and is designed to help participants understand the basic principles of dairy science and food safety.

The course also emphasizes dairy processing establishment needs related to dairy sanitation to ensure that proper programs are conducted in their facilities.

The course is delivered online and self-paced and is available in both English and Spanish (language delivery preference available on the registration form.)

https://cals.cornell.edu/dairy-extension/

Learn the GMP Regulations Part 117

This Good Manufacturing Practices (GMPs) Internet Course is designed to review the requirements of *Part 117 Subpart B* – Current Good Manufacturing Practice in Title 21 of the U.S. Code of Federal Regulations Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Human Food. As part of the FDA's Food Safety Modernization Act (FSMA), several revisions were made to the current GMPs regulation to update and clarify it. The regulation outlines the basic sanitary controls that are required for all food processing plants, wholesale or distribution firms, and warehouses or food storage facilities that handle, store or process FDA regulated food. This course provides the text of each section of this regulation (21 CFR Part 117 Subpart B) along with an explanation of its intent, examples and strategies for compliance with these new requirements as well as resources for additional information.

The course consists of 12 different Modules

- •Module 1: GMP Regulation & Training
- •Module 2: Food Safety: Microbes & Allergens
- •Module 3: Personnel: Health & Hygiene
- •Module 4: Plant Grounds & Pest Control
- •Module 5: Plant Construction & Design
- •Module 6: Sanitary Facilities: Water, Plumbing & Toilets
- •Module 7: Sanitary Operations: Cleaning & Sanitizing
- •Module 8: Equipment & Utensils
- •Module 9: Plant Operations & Raw Materials
- •Module 10: Manufacturing Operations: Process Controls
- •Module 11: Warehousing, Food Disposition & Defects
- •Module 12: Building Sanitation Procedures

Each module concludes with a quiz to test your knowledge. Completing each quiz is required to receive the Certificate of Course Completion, as described below.

https://instituteforfoodsafety.cornell.edu/

Multi-Modal Food Safety Plan Education



Self-paced online modules on Food Safety **Plan Components**



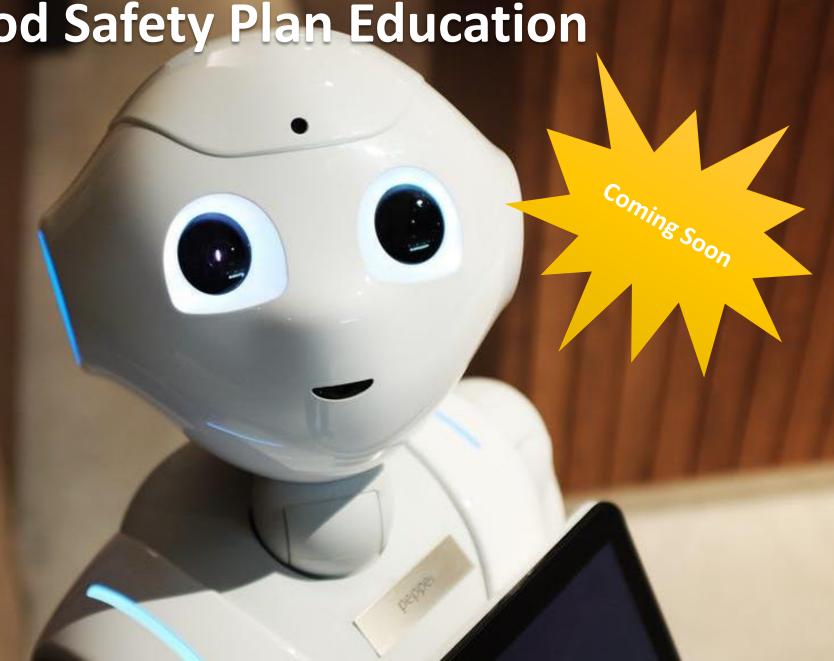




Live, virtual office hours with food safety experts



In-Person Conference Workshops



Food Safety Plan Overview Summary

- A written Food Safety Plan, specific to the facility, is required to include a hazard analysis
- When hazards requiring a preventive control are identified, the following are required, as appropriate:
 - Preventive controls
 - Process, food allergen, sanitation, supply-chain and others determined through the hazard analysis process
 - A recall plan
 - Implementation procedures
 - E.g., validation studies and monitoring, corrective actions and verification procedures
- The format is flexible