

Writing, Revising, and Updating a HACCP-Based Food Safety Plan for Schools Workshop



Overview

Learn Hazard Analysis Critical Control Point (HACCP)

Develop a rough draft of a food safety plan

Take home tools, templates, and resources



Logistics



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AGENDA - DAY 1

TIME	TOPIC	PRESENTER					
DAY 1 (6 HOURS)							
8:30-8:45 a.m.	Introduction	Elisha Bury					
8:45–10:00 a.m.	Lesson 1 – Before You Get Started	Elisha Bury					
10:00–10:15 a.m.	BREAK						
10:15 a.m. – Noon	Lesson 2 – Creating Your HACCP-Based Food						
	Safety Plan						
Noon – 1 p.m.	LUNCH (on your own)						
1:00–2:00 p.m.	Lesson 2 – Creating Your HACCP-Based Food						
	Safety Plan						
2:00-3:25 p.m.	Update HACCP-Based Food Safety Plan	Individual Work					
3:25–3:30 pm.	Wrap Up	Elisha Bury					

18 Hour HACCP Pre-/Postassessment



Pre-assessment

- Use a unique, 4 digit identifier (last 4 of cell #)
- You will use the same ID # for the post-assessment
 - So TDA can collect and analyze data to improve training effectiveness.
 - Anonymous





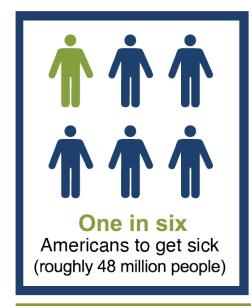
DAY 1 Learning Developing Writing

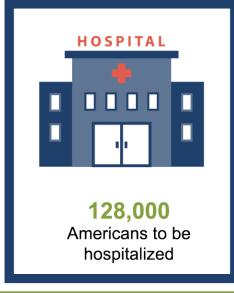


Lesson 1 — Before You Get Started

Background

The Centers for Disease Control and Prevention (CDC) estimates that annually foodborne illness will cause:









Half of the reported cases of foodborne illnesses occur in children under 15 years of age.





Lesson 1 Objectives

What is HACCP

Why HACCP is important to schools

What prerequisite programs are needed

Write school nutrition program descriptions



HACCP

Hazard Analysis Critical Control Point

FDA Process Approach USDA

Process Approach to HACCP-based plan for schools



Population in Schools

Over 30 million children served school meals daily

Young children at risk for foodborne illness:

- Developing immune systems
- Lower body weight
- Limited control over their diet
- Reduced stomach acid production





Food-Related Disabilities

- Food allergies/intolerances
- Celiac disease
- Diabetes
- PKU
- Modified texture







Child Nutrition Reauthorization Act of 2004

Requirement for a food safety program based on HACCP

Healthy, Hunger-Free Kids Act of 2010

 Amended the requirement for the HACCP-based plan to apply to all locations in the school where food is stored, prepared, or served



Essential Point of HACCP

Heart of HACCP is prevention!







Sanitation

Temperature Control

Standard
Operating
Procedures
(SOPs)

HACCP and Sanitation

Prevent foodborne illness outbreaks



Eliminates microorganisms on food contact surfaces

Wash, rinse, sanitize, and air dry before and after use:

- Food contact surfaces
- Equipment
- Utensils
- Sinks
- Tables
- Thermometers
- Carts



HACCP and Personal Hygiene

Prevent foodborne illness outbreaks

Reduce the spread of microorganisms from employees to food



HACCP and Temperature Control



Temperature Danger Zone (TDZ): 41 °F – 135 °F

Hold food temperatures

Cold foods (41 °F or below) Hot foods (135 °F or above)

Cook food to proper cooking temperature

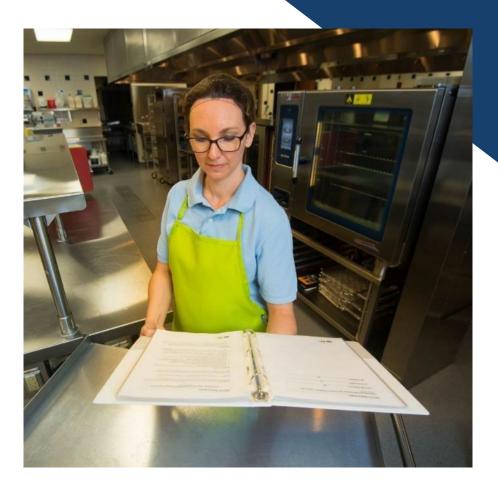
Use a calibrated food thermometer

Record temperatures



HACCP and Standard Operating Procedures (SOPs)

- Step-by-step instructions for food safety
- How to do
- What to do
- Foundation for the food safety program

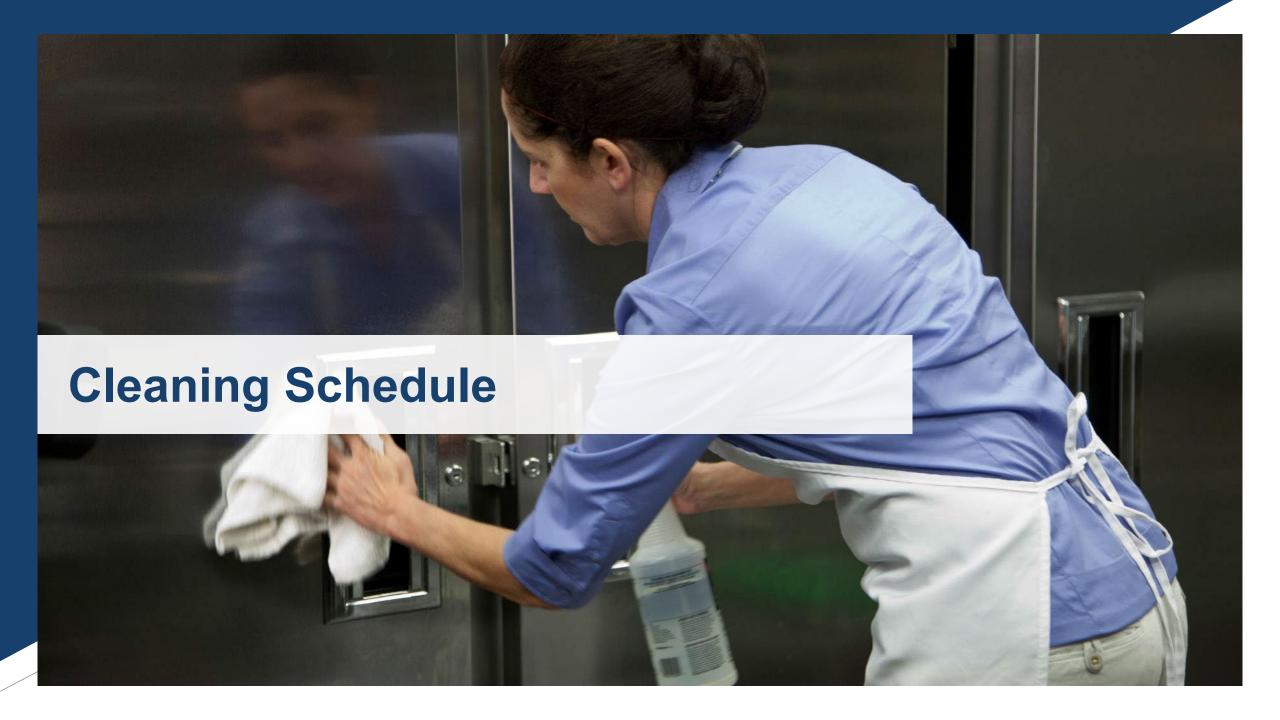




HACCP Prerequisite Programs

- Cleaning schedule and Safety Data Sheets (SDS)
- Personnel policies
- Preventative maintenance plan
- Vendor letters of assurance of food safety standards
- Pest control contract







	Weekly	3 Months	6 Months	Yearly	Vendor List	Notes	
Refrigerator							
Freezer							
Milk cooler							
Oven							
Combi oven							
Dishwasher							
Steam-jacketed kettle							
Hot holding equipment							
Transport equipment							
Ice machine							



Vendor Food Safety

Demonstrate focus on food safety

- Share food safety plan
- Allow for inspection of their facility
- Share scores of recent inspections





Pest Control Contract





Prerequisite Program Checklist Activity



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Program Overview Description

- District-wide policies
- Examples:
 - Purchasing
 - Leftover use
 - Uniforms
 - Training
 - Contracted and shared services
 - Version of Food Code

School Site Description

- Kitchen site specific policies
- Type of foodservice production
- Location where food is served
- Equipment list
- Condition of kitchen and serving area
- Menu and recipes categorization
- Hours of operation
- Vendor delivery schedule
- Site staff and food safety training









Lesson 1 Review

What is HACCP

Why HACCP is important to schools

What prerequisite programs are needed

Write school nutrition program descriptions



Lesson 2 — Creating Your Food Safety Plan

A HACCP-Based Food Safety Plan

- Develop, document, and implement Standard Operating Procedures (SOPs)
- 2. Identify and document all menu items
- Identify and document control measures and critical limits
- 4. Establish monitoring procedures
- 5. Establish corrective actions
- 6. Keep records
- 7. Review and revise



Lesson 2 Objectives

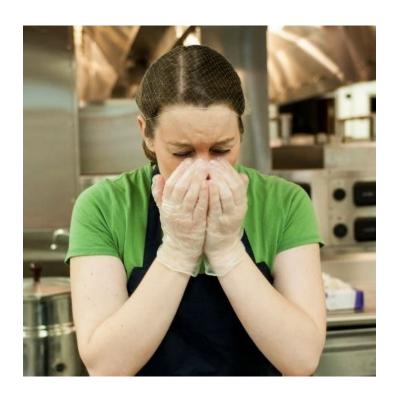
Write a food safety plan

Review and discuss current resources available



Hazard Analysis

Biological



Chemical



Physical



1. Develop, Document, and Implement SOPs

Standard Operating Procedure (SOPs)

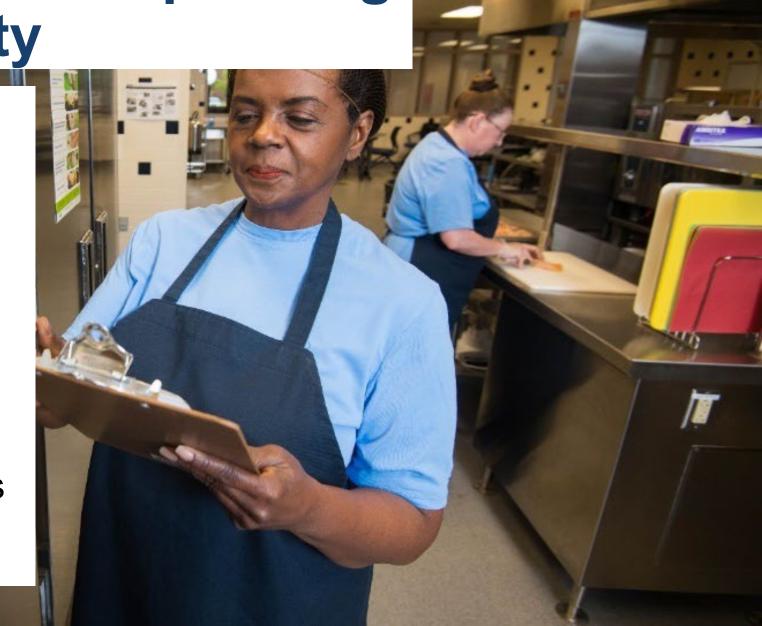
- Step-by-step written instructions
- Cover food safety practices
- Tailor to individual school
- Important for staff to follow



Adapting a Standard Operating Procedure Activity

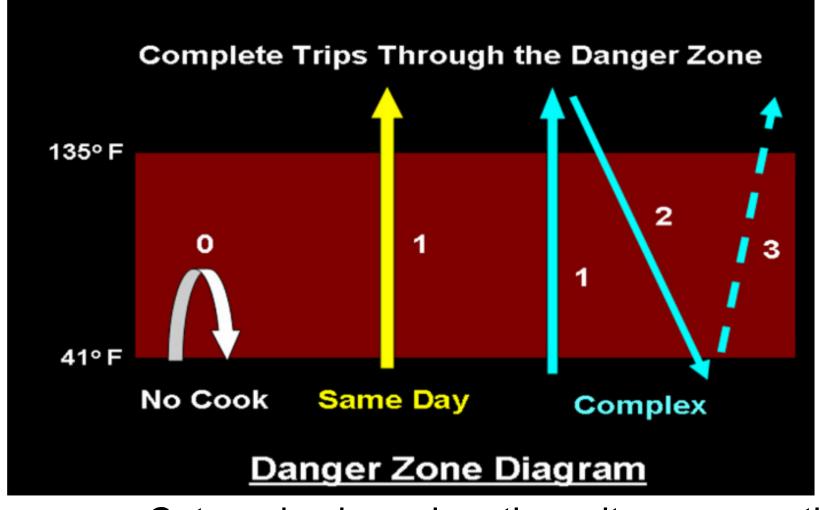
SOP Sections

- Title
- Purpose of SOP
- Instructions
- Temperature control points
- Monitoring procedures
- Corrective actions
- Record keeping documents
- Verification procedures





2. Identify and Document All Menu Items



Process Approach for HACCP

Categories based on times item moves through the temperature danger zone (TDZ)

	Process	Approach Categories
Process	Temperature	Evample Foods

Category Danger Zone

Example Foods

Food does not go No Cook through TDZ

Same Day

Service

Complex



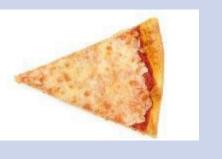




Food goes through TDZ one time







Food goes through TDZ two or more times









3. Identify and Document Control Measures and Critical Limits

Critical Control Point (CCP)

- Key point: prevent, eliminate, or reduce a food safety hazard
- Example: Check final internal cooking temperature of ground beef

Critical Limit (CL)

- Min or max limit to prevent or eliminate a hazard
- Example: Ground beef min cooking temperature is 155 °F



Control Measures — **No Cook**

Does not go through TDZ

Cold Holding: 41 °F or lower

Prevents growth of pathogens



Process 1: No Cook – Fruit Salad

Receive

Use known source, receiving temperatures

Store

 Proper storage temperatures, prevent crosscontamination, store away from chemicals

Prepare

 Good personal hygiene, restrict ill employees, prevent cross-contamination

CCP: Cold Hold

CL: hold at 41 °F of below.

Check and record temperatures.

Serve

 No bare hand contact with ready-to-eat food, personal hygiene, restrict ill employees



Control Measures — **Same Day Service**

Food goes through the TDZ one time

Cook to internal temperature to destroy bacteria

Hot Holding: 135 °F or higher

Process 2: Same Day – Baked Chicken

Receive

• Use known source, receiving temperatures

Store

 Proper storage temperatures, prevent cross-contamination, store away from chemicals

Prepare

 Good personal hygiene, restrict ill employees, prevent crosscontamination

CCP: Cook

• CL: internal temperature of 165 °F for at least 15 seconds.

Check and record temperatures.

CCP: Hot Hold

• CL: hold at no less that 135 °F.

Check and record temperatures.

Serve

 No bare hand contact with ready-to-eat food, personal hygiene, restrict ill employees

Control Measures — Complex



Food that goes through the TDZ two or more times

Cook to internal temperature to destroy bacteria

Cool quickly to slow bacterial growth

- 70 °F within 2 hours
- 41 °F within additional 4 hours

Reheat

165 °F for 15 seconds within 2 hours

Hot holding

• 135 °F or higher

Process 3: Complex–Beef and Bean Tamale Pie

Receive

• Use known source, receiving temperatures

Store

• Proper storage temperatures, prevent cross-contamination, store away from chemicals

Prepare

• Good personal hygiene, restrict ill employees, prevent cross-contamination

CCP: Cook

- CL: internal temperature of 165 °F for at least 15 seconds.
- Check and record temperatures.

CCP: Cool

- CL: cool to 70 °F within 2 hours and from 70 °F to 41 °F or lower within an additional 4 hours.
- Check and record temperatures.

CCP: Reheat

- CL: heat to 165 °F for at least 15 seconds...
- Check and record temperatures.

CCP: Hot Hold

- CL: hold at no less that 135 °F.
- Check and record temperatures.

Serve

• No bare hand contact with ready-to-eat food, personal hygiene, restrict ill employees

Identify Critical Control Points in Recipe Activity

Chicken Alfredo with a Twist

STEP 3
Critical Control Point:
Hold pasta at 135°F or
higher.

STEP 4
Critical Control Point:
Heat to 165°F or higher for at least 15 seconds.

STEP 5
Critical Control Point:
Hold for hot service at
135°F or higher.

Sorting Recipes into Process Approach Categories Activity

Use Your Recipes







Questions to Consider	Example
How will you monitor?	Verify the refrigerator temperature is 41 °F or lower.
When and how often will you monitor?	Two times daily; beginning and end of workday
Who will be responsible for monitoring?	Cafeteria manager

5. Establish Corrective Procedures

Corrective action – what must be done if a CCP is not met

Example Scenario

- Cooler temperature is 46 °F
- Should be 41 °F
- Temperature taken the day before and logged
- Corrective action
 - Check a carton of milk.
 - If it registers 42 °F or above, do not serve.
 - 2. Call for replacement milk and equipment repair.
 - 3. If milk temperature is too high, mark all the milk in the cooler as BAD do not use or discard as instructed.



6. Keep Records

Method for checking and verifying that the food safety plan is working

Examples of records to keep

- SOPs
- Time and temperature logs
- Corrective action records
- Calibration logs
- Training logs

Records can show what safety measures were taken if there is a foodborne illness outbreak.

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Using Logs

Cooking and Reheating Temperature Log

Instructions: Record product name, time, the two temperatures, and any corrective action taken on this form. The school nutrition manager will verify that school nutrition employees have taken the required cooking temperatures by visually monitoring school nutrition employees and preparation procedures during the shift and reviewing, initialing, and dating this log daily. Maintain this log for a minimum of 1 year.

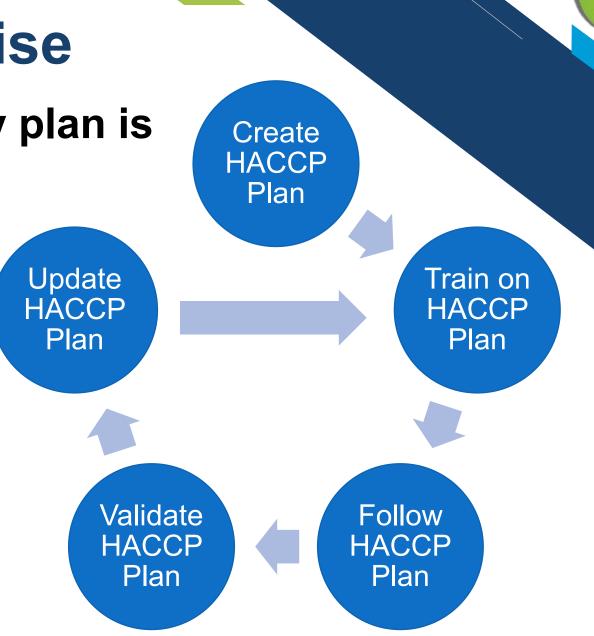
	and me	Food Item	Internal Temperature	Internal Temperature	Corrective Action Taken	Initials	Verified By/Date



HACCP-based food safety plan is a living document!

Review and revise food safety plan

- At least annually
- With changes in facility
 - New equipment
 - New menu items
 - New laws and regulations
- When employees voice issues
- Procedure is not working



Selection of SOPs

Do not reinvent the wheel

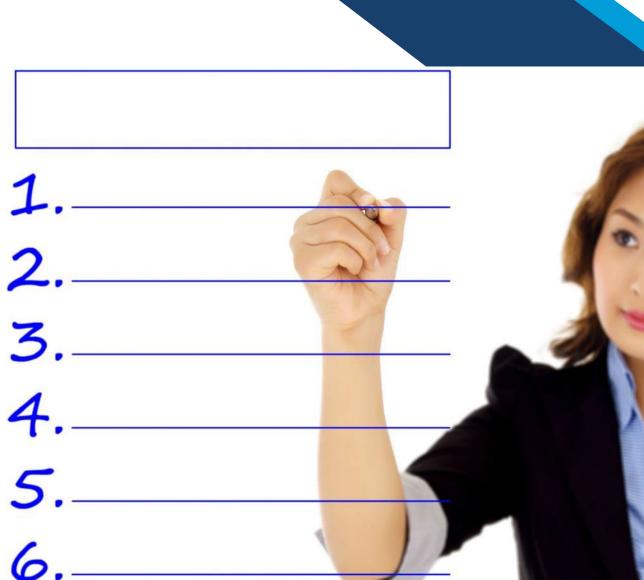
Use available resources

Adapt SOPs and logs to your school



Organize Your HACCP Plan

- HACCP Plan
 - District plan
 - All school plans
- Organize material with Table of Contents
 - Outline for HACCP plan



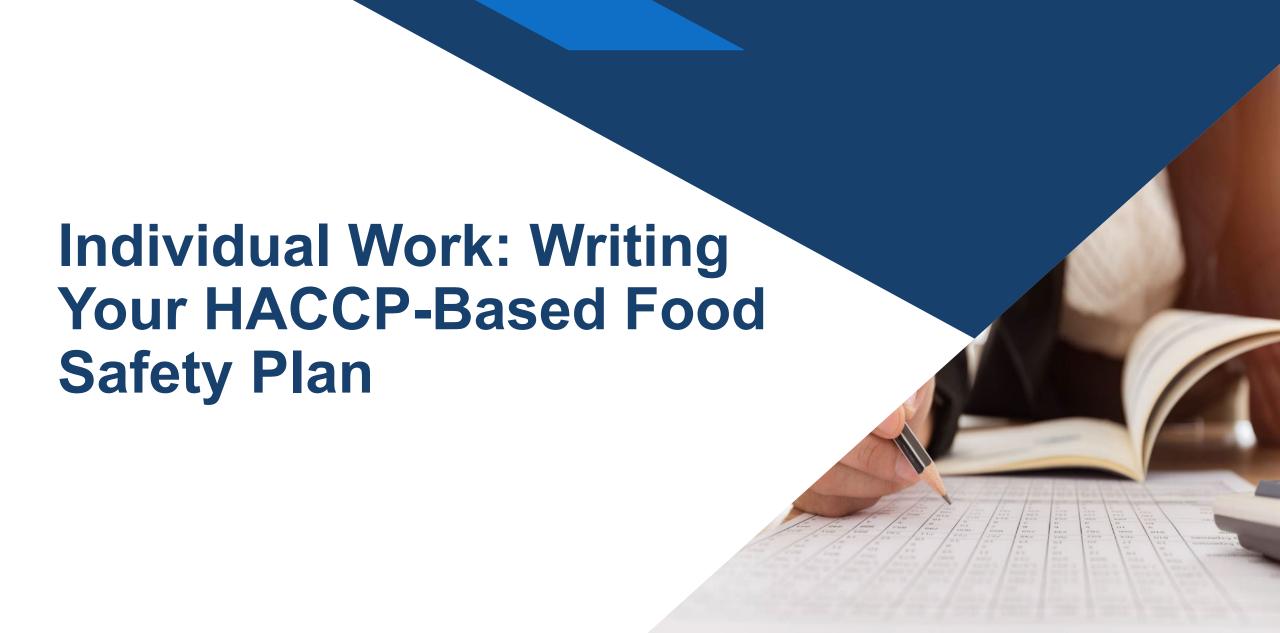




Lesson 2 Review

Write a food safety plan

Review and discuss current resources available



End Day 1





DAY 2
Group
Discussion
and Writing

AGENDA – DAY 2

TIME	TOPIC	PRESENTER			
	DAY 2 (6 HOURS)				
8:30-8:45 a.m.	Welcome	Elisha Bury			
8:45–9:25 a.m.	District Size Challenges and Solutions	Group Work			
9:25–10:05 a.m.	School Location Challenges and Solutions	Group Work			
10:05–10:20 a.m.	BREAK				
10:20-11:05 a.m.	Food Production Type Challenges and Solutions	Group Work			
11:05 a.m. – 12:05 p.m.	LUNCH (on your own)				
12:05–1:25 p.m.	Edit Safety Plan from Group Work	Individual Work			
1:25–2:25 p.m.	Emergency Plan Challenges and Solutions	Group Work			
2:25–3:25 p.m.	Food Defense Challenges and Solutions	Group Work			
3:25–3:30 p.m.	Wrap Up	Elisha Bury			

Group Breakout Session 1



District Size

Small: <5,000 students

Medium: 5,001–10,000 students

Large: 10,001–49,999 students

Major: 50,000 or more students



What challenges occur in your school nutrition program?

What are your unique food safety hazards?

School Location

- Rural
- Urban
- Suburban
- Remote



What challenges occur in your school nutrition program?

What are your unique food safety hazards?

Food Production Type

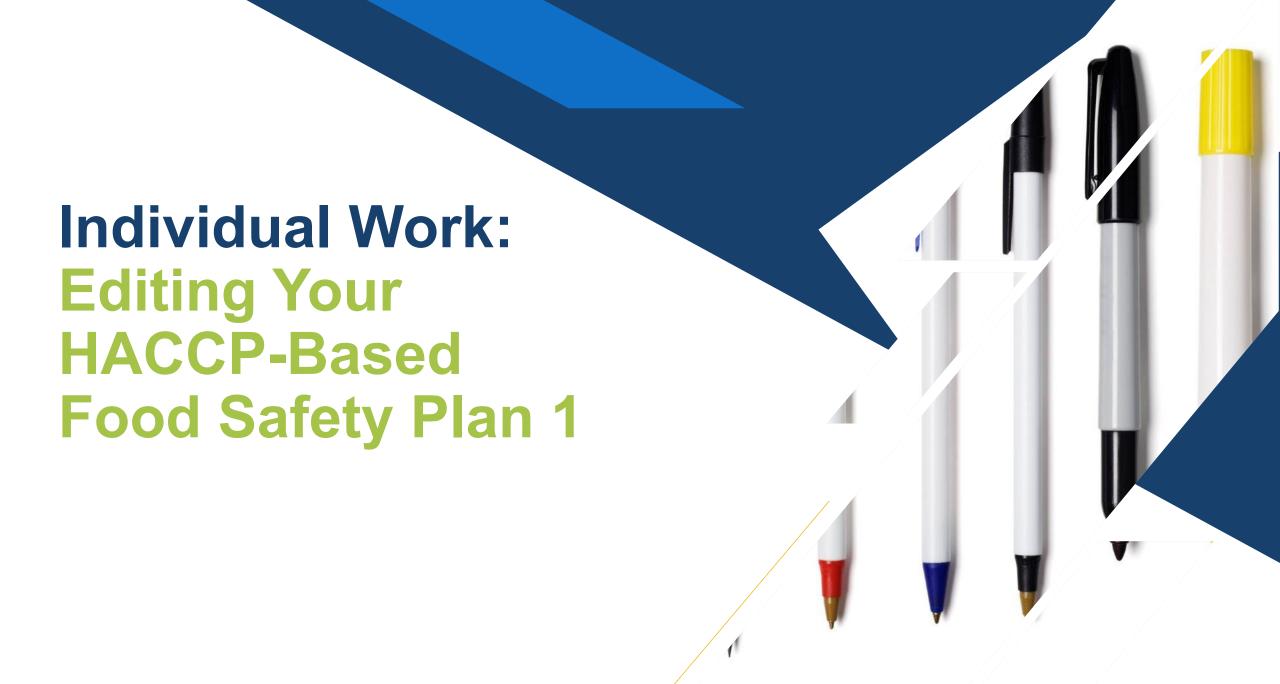
- Scratch-Cooking
- Central Kitchen
- Heat and Serve
- Satellite Site
- Combination



What challenges occur in your school nutrition program?

What are your unique food safety hazards?





Emergency Situations

- Internal Threat
- External Threat
- Natural disaster



What challenges occur in your school nutrition program?

What are your unique food safety hazards?

Food Defense



What challenges occur in your school nutrition program?

What are your unique food defense hazards?



End Day 2



DAY 3 Validating Implementing

AGENDA - DAY 3

TIME	TOPIC	PRESENTER			
DAY 3 (6 HOURS)					
8:30-8:45 a.m.	Welcome	Elisha Bury			
8:45–10:30 a.m.	Edit Food Safety Plan from Group Work	Individual Work			
10:30–10:45 a.m.	BREAK				
10:45 a.m. – Noon	Validating the Food Safety Plan	Partner Work			
Noon – 1 p.m.	LUNCH (on your own)				
1:00–2:30 p.m.	Lesson 3 – Implementation of HACCP-Based Food Safety Plan	Elisha Bury			
2:30-3:00 p.m.	Exit Ticket: Scattergories				
3:00–3:30 p.m.	Wrap Up	Elisha Bury			

Individual Work:
Editing Your HACCPBased Food Safety
Plan 2





Food Safety Plan Validation

Critical questions for validation of plan

Is the plan inclusive of all hazards?

Does the plan prevent hazards in your school nutrition program?

Is the plan being used?



Validating Your Partner's Food Safety Plan Activity

Review Your Partner's Plan



Lesson 3 Implementation of a HACCP-Based Food Safety Plan



Lesson 3 Objectives

Encourage staff to adopt a food safety plan

Write an action plan for training and implementing

Create a plan for validating and updating your plan



Engagement and Buy-In

Engagement

- Degree of attention, curiosity, interest, optimism, and passion that staff show
- Extends to the level of motivation

Buy-In

 Acceptance and willingness to actively support and participate





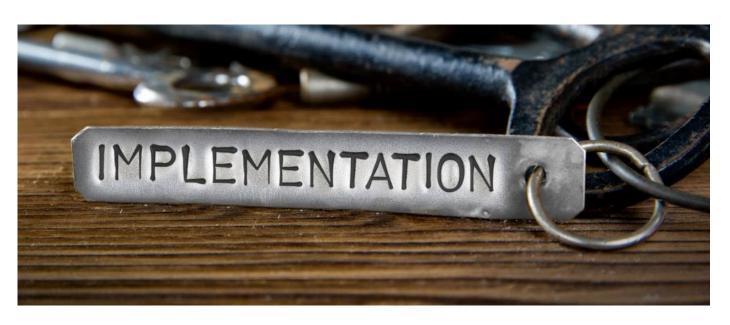




Implementing the Food Safety Plan – Before You Begin

Development tasks:

- Prerequisite programs
- Introduction of plan to staff
- Program editing
- Equipment purchase
- Training
- SOP and log adaption





Implementing the Food Safety Plan – Training

Manager training

- Procedures
- Logs
- Corrective actions
- Monitoring
- Verification
- Record Keeping

Staff training

- Procedures, logs and corrective actions
- New Employee Orientation
- Plan introduction
- Refresher
- Documentation of training

Implementation Calendar Activity





Validating the Food Safety Plan

Processes and procedures in plan work

Staff following processes and procedures

Validate new equipment and menu items



Updating the Food Safety Plan Keep your HACCP plan a living document!

Review and revise food safety plan

At least annually

With changes in facility

- New equipment
- New menu items
- New laws and regulations

When employees voice issues

Procedure is not working



Lesson 3 Review

Encourage staff to adopt a food safety plan

Write an action plan for training and implementing

Create a plan for validating and updating your plan



18 Hour HACCP Pre-/Post-assessment



Post-assessment

- Use a unique, 4 digit identifier (last 4 of cell #)
- You will use the same ID # for the post-assessment
 - So TDA can collect and analyze data to improve training effectiveness.
 - Anonymous

ESC Training Survey



Training Survey

- TDA strives to use your feedback to make training as effective as possible.
- Short, 4 question survey that TDA will use to improve training.

- So TDA can collect and analyze data to improve training effectiveness.
- Anonymous





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