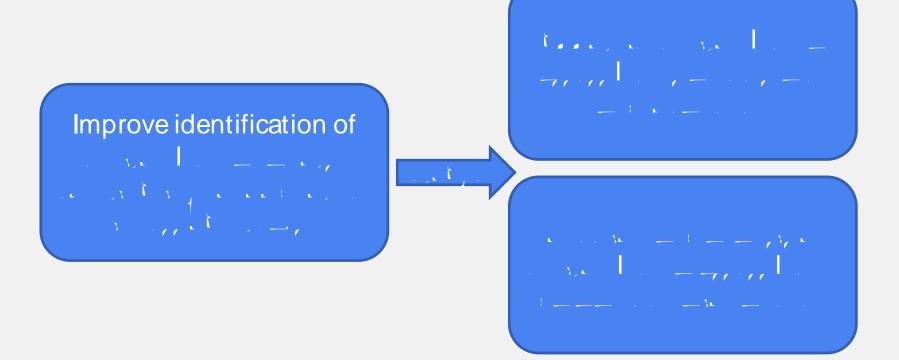
National Environmental Assessment Reporting System (NEARS)

Identifying Environmental Factors Contributing to Foodborne Illness Outbreaks



CDC's National Center for Environmental Health Objectives



Environmental Factors Contributing to Outbreaks







Environmental Factors Contributing to Outbreaks

Contributing Factors

Contamination

- Cross-contamination of ingredients
- Contact by an infectious/ill worker

Proliferation

- Improper cold holding due to malfunctioning equipment
- Improper cold holding due to improper procedure

Survival

- Insufficient time/temp during reheating
- Insufficient time/temp during freezing

Environmental Antecedents

- People
- Economics
- Processes
- Food
- Equipment

Environmental Factors Contributing to

Outbreak Environmental Assessments

The Need to Improve Reporting of Environmental Assessment Data

Environmental



Support of Environmental Assessments at the State and Local level

Development and launch of environmental assessment training

Designed to improve environmental health programs' competency in conducting environmental assessments during outbreaks

Over 5,000 people from federal, state, local government agencies have

Environmental Assessment Training

Module 1: Foundation Skills

Lesson 1: Your Assignment

Lesson 2: Overview of Foodborne Illness Outbreak Environmental Assessments

Lesson 3: Effective Interviewing Skills

Lesson 4: Observation and Records Review

Lesson 5: Environmental Sampling

Lesson 6: Critical Thinking Skills

Lesson 7: Organizing Assessment Information

Lesson 8: Control Strategies and Conducting Actions

Environmental Assessment Training

Module 2: Skill Building

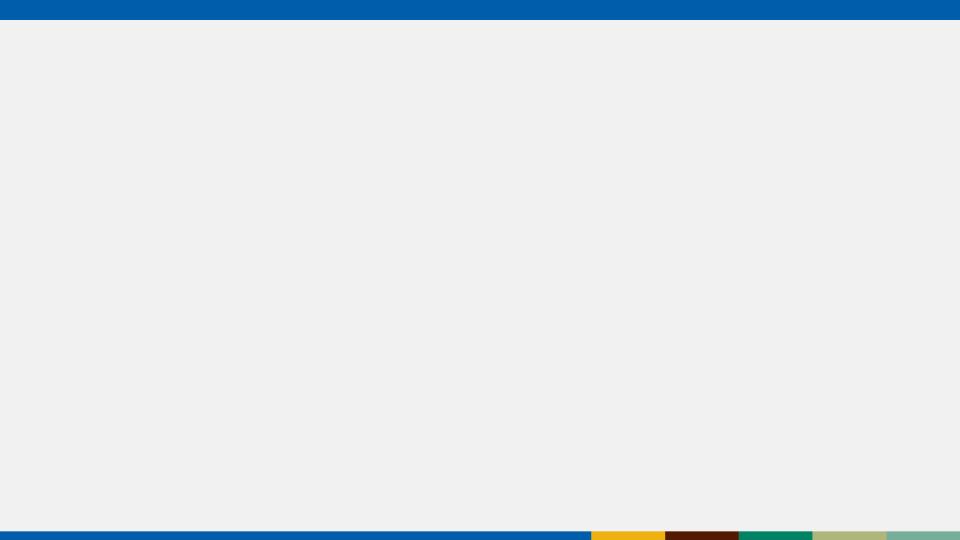
- Lesson 1: Guided walkthrough of an environmental assessment for a fictitious *C. perfringens* outbreak linked to a private school cafeteria
- Lesson 2: Virtual environmental assessment of a fictitious *Salmonella* Enteriditis and *Salmonella* Pomona outbreak linked to a local catering establishment
- Lesson 3: Guided walkthrough of an environmental assessment for a fictitious *E. coli* O157:H7 outbreak linked to a grower and distributor of organic herbs
- Lesson 4: Virtual environmental assessment of a fictitious Listeria outbreak in a cheese plant

Module 3: Food Defense

- Lesson 1: Overview of food defense concepts
- Lesson 2: Overview of food (o)05(O)-77 8 (d) J 156529-4 (t) 3fLa4-34 (i)-41 (f at) 3fLa4-3ml007 Tc 0667

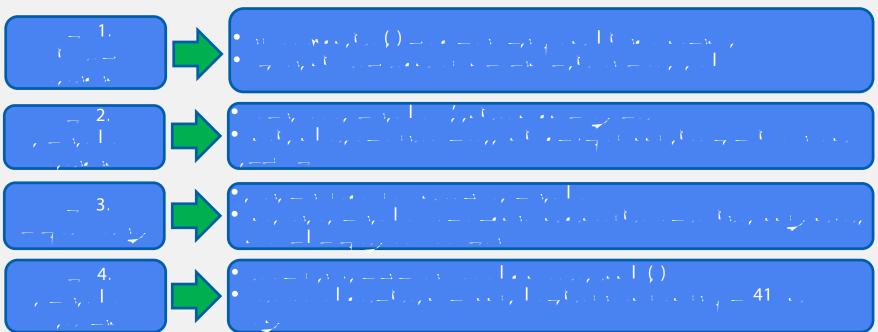
Environmental Assessment Training

http://ow.ly/HnnxJ



Collection and Analysis of Environmental Assessment Data at the National Level

Programs report data into NEARS on:



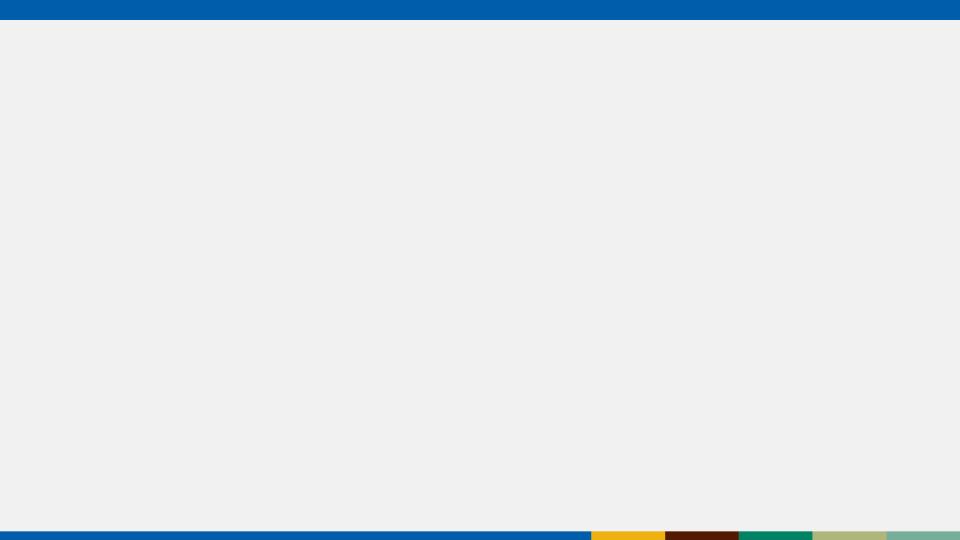
Collection and Analysis of Environmental Assessment Data at the National Level

Programs report data into NEARS on:



Short-term Benefits of NEARS Participation

Annual report from



Data to improve foodborne outbreak response

What investigation characteristics lead to identification of environmental factors?



What environmental antecedents are linked with specific contributing factors?





Summary



Improved identification of environmental factors

and the property of appetually

Begin Reporting Environmental Assessment Data to NEARS

Commit to conducting environmental assessments

Complete NEARS Registration Form(s)

- State Notice and Acknowledgment of Local Participation
- Notice of Participation Form
 - https://www.cdc.gov/nceh/ehs/nears/registration.htm

Complete CDC's free online environmental assessment training

https://www.cdc.gov/nceh/ehs/elearn/ea_fio/index.htm

For more information, contact NCEH 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov Follow us on Twitter @CDCEnvironment

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

