

# An Introduction to Environmental Monitoring and Sanitation

## Virtual Course Draft Agenda

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### **Day 1: 10am – 2:30pm Central**

#### **INTRODUCTION 30 minutes**

##### **SESSION 1: INTRODUCTION TO MICROORGANISMS AND CONCERNS IN THE FOOD PROCESSING ENVIRONMENT**

- *Introduction to microorganisms in foods*
- *General characteristics*
- *Factors influencing growth of microorganisms: The basics*
- *Roles in food production*

#### **30 Minute Break**

##### **SESSION 2: INTRODUCTION TO ENVIRONMENTAL MONITORING**

- *Environmental monitoring*
- *Growth niches and biofilms*
- *Zone concept*
- *Target analytes*

#### **Breakout Groups: ACTIVITY PART 1 (investigation, problems, identification) and BRIEFINGS**

##### **SESSION 3: REGULATORY REQUIREMENTS FOR SANITATION, SANITARY OPERATIONS, AND ENVIRONMENTAL MONITORING**

- *FDA Preventive Controls Requirement*
- *21 CFR Part 117 Subpart B*
- *USDA-FSIS Sanitation Standard Operating Procedures*
- *Other Regulatory Requirements*

## **Day 2: 10am – 2:30pm Central**

SESSION 4: SANITATION, ENVIRONMENTAL MONITORING, & EQUIPMENT DESIGN

SESSION 5: HYGENIC CONSIDERATIONS IN FACILITY & EQUIPMENT DESIGN

**30 minute break**

**Breakout Groups: ACTIVITY (TBD)**

SESSION 6: CLEANERS

- *The function of cleaners*
- *Cleaning defined*
- *Soil and its components*
- *Chemistry of detergents and cleaners*

SESSION 7: METHODS OF CLEANING

## **Day 3: 10am – 2:30pm Central**

SESSION 8: SANITIZERS

SESSION 9: SANITATION VERIFICATION

- *Monitoring of Cleaning and sanitation*
- *Validation and verification*
- *Best practices*

SESSION 10: ROOT CAUSE ANALYSIS & CORRECTIVE ACTION

**30 Minute Break**

SESSION 11: DATA MANAGEMENT AND MAINTENANCE OF AN ENVIRONMENTAL MONITORING PROGRAM

- *Program management*
- *Data management*
- *Tools*
- *Communication*

**Breakout Groups: ACTIVITY PART 2 (data interpretation, next steps) and BRIEFINGS**

Wrap Up

Exam