

Environmental Monitoring and Aseptic Techniques

Course Agenda

	Day 1: 8:00 am – 5:00 pm
8:00 a.m.	INTRODUCTION
8:15 a.m.	SESSION 1: INTRODUCTION TO MICROORGANISMS AND CONCERNS IN THE FOOD PROCESSING ENVIORNMENT
	 Introduction to microorganisms in foods
	General characteristics
	 Factors influencing growth of microorganisms: The basics
	Roles in food production
9:45 a.m.	BREAK
10:00 a.m.	SESSION 2: INTRODUCTION TO ENVIRONMENTAL MONITORING
	 Environmental monitoring
	 Growth niches and biofilms
	Zone concept
	Target analytes
11:15 a.m.	ACTIVITY PART 1 (investigation, problems, identification) and BRIEFINGS
12:00 a.m.	LUNCH
1:00 p.m.	SESSION 3: DESIGNING A COMPREHENSIVE ENVIRONMENTAL MONITORING PROGRAM
	 Management Commitment and Responsibility
	Determination of need
	Risk evaluation
	Sampling plan
2:15 p.m.	BREAK
2:30 p.m.	SESSION 3 (continued)
3:15 p.m. METHODS	SESSION 4: SAMPLING: TRAINING OF PERSONNEL & SAMPLING
	Definitions
	 Training of sampling personnel
	 Sampling tools and techniques
	Sample integrity
	 Transportation of samples
	Test methodology
5:00 p.m.	ADJOURN FOR THE DAY



	Day 2: 8:00 am – 5:00 pm
8:00 a.m.	SESSION 5: ROOT CAUSE ANALYSIS CONCEPTS SPECIFIC TO EMP
	 Definitions and background
	 Regulatory issues
	Common mistakes
	Data use
9:00 a.m.	BREAK
9:15 a.m.	SESSION 6: DATA MANAGEMENT AND MAINTENANCE OF AN ENVIRONMENTAL MONITORING PROGRAM
	Program management
	Data management
	• Tools
	Communication
10:15 a.m.	BREAK
10:30 a.m.	ACTIVITY PART 2 (data interpretation, next steps) and BRIEFINGS
11:30 a.m.	GENERAL DISCUSSION/SHARING OF EVENTS/MISCELLANEOUS TOPICS
12:00 p.m.	LUNCH
1:00 p.m.	SESSION 7: RESPONDING TO A POSITIVE RESULT IN ENVIRONMENTAL MONITORING
	Terms
	Planning and preparation
	Responses
	Investigational process
	Record keeping
2:15 p.m.	BREAK
2:30 p.m.	SESSION 8: SANITATION VERIFICATION
	Cleaning and sanitation
	Validation and verification
	Best practices
3:00 p.m.	SESSION 9: FDA Guidance for Industry to Control Listeria monocytogenes in RTE Foods
	Overview
	Environmental monitoring aspects
	Example
	Resources
Mérieux NutriSciences	

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5:00 p.m.

WRAP UP and CLASS ADJOURNS

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