LCF Cooperative Agreement Updates

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Association of Public Health Laboratories (APHL)
2020 Laboratory Accreditation Meeting, Spokane, WA
NCS LABORATORY FRAMEWORK DEVELOPMENT
Our Goal:

Building a competent laboratory workforce doing comparable work as part of the Integrated Food Safety System
### Human and Animal Food Laboratory Professionals Curriculum Framework - July, 2019

#### Senior Administration
- Accreditation / Certification
- Advocacy
- Budget
- Change Management
- Certifiability of Operations
- Facility Management
- Hazard Management
- Legislative Affairs
- ISO (Section 4)

#### Advanced Chemistry
- Negotiation
- Risk Communication Introduction

#### Advanced Microbiology

#### Certificates & Certifications
- Expert (Program Specific)
  - Animal Food
  - Human Food
  - Shellfish
  - Instrument Repair
  - Laboratory Evaluation Officer
  - Coaching
  - Nano-technology
  - Animal Health
  - Animal Food
  - Human Food
  - Shellfish

- Expert
  - Acidified Foods
  - Advanced Leadership
  - Allergens
  - Evidence-Based Decision Making
  - Grant Writing
  - Internal Audit
  - Labeling
  - Measurement Uncertainty
  - Method Modification / Development
  - Risk Analysis
  - Validation Methods

- Mid (Program Specific)
  - Gas Chromatography - Mass Spectroscopy (GCMS)
  - Inductively Coupled Plasma Mass Spectrometry (ICPMS)
  - Liquid Chromatography - Mass Spectroscopy (LCMS)
  - National Laboratory Networks Methods
  - Radiological
  - Advanced Technologies
  - National Laboratory Networks Methods

- Mid
  - Advanced Communication Skills
  - Advanced Quality Techniques
  - Basic Leadership Skills
  - Critical Thinking
  - Evidentiary Integrity
  - Human and Animal Food Incident Response
  - Laboratory Networks and Partnerships
  - Legal Proceedings
  - Method Evaluation and Selection
  - Root Cause Analysis

#### Entry (Program Specific)
- Animal Food
- Biosafety Level 3
- Dairy Regulatory Programs
- Select Agents
- Shellfish Regulatory Programs

#### Entry
- Accreditation / Certification
- Basic Communication Skills
- Basic Laboratory Math
- Basic Laboratory Techniques
- Basic Mass Spectrometry
- Basic Spectroscopy
- Environmental Monitoring and Investigations
- Aseptic Techniques
- Basic Foodborne Pathogens
- Environmental Conditions
- Microbiological Testing
- Chain of Custody
- Incident Command System (ICS)
- Integrated Food Safety System (IFS)
- Laboratory Information Management System (LIMS)
- Laboratory Sampling
- Laboratory Methods Resources
- Public Health (One Health) Approach
- Quality Management Systems
- Regulatory Programs
- Regulatory Sampling
- Safety
- Waste Management

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The Laboratory Framework is being built out through a Cooperative Agreement with FDA, APOD, AAFCO, and APHL.
The Framework Contains...

• Competencies
  – Knowledge, skills, abilities, behaviors, and attributes that a laboratorian should be able to perform and/or explain

• Behavioral Anchors
  – Behaviors that might be observed and can be measured to demonstrate competency
Entry Level – Gen Eds

- Completed and validated all competency statements
- Finalized behavioral anchors
Entry Level – Program Specific

- January 2020 meeting – Shellfish & Dairy
- Completed all competency statements
- Completed behavioral anchors for all content areas except Shellfish Regulatory Programs
- Will validate competency statements Spring 2020
Mid Level

- Gen Ed content areas: Competencies completed
- March 2020 work group meeting
  - Work on Behavioral Anchors for Mid-Level content areas

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<th>Mid</th>
<th>Advanced Communication Skills</th>
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<th>Basic Leadership Skills</th>
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We need your help!

- Review the Mid-Level Program Specific content areas
- What are two subjects missing from this level?
- What are two subjects from this level can be addressed elsewhere?
LCF COURSE DEVELOPMENT
Courses Under Review

- Laboratory Ethics
- Laboratory Safety (Modules 1&2 of 4)
Ready for Programming

• Basic Laboratory Statistics (TBD 2020)
• Basic Laboratory Techniques (TBD 2020)
In Development

- Basic Laboratory Math (TBD 2020)
- Waste Management (TBD 2020)
- Method Resources (TBD 2020)
Thank you

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