Laboratory Framework

• 5-Year project involving
  • APHL
  • AFDO
  • AAFCO
  • FDA OTED (formerly DHRD)
  • IFPTI

• Goal: a Competency-Based Curriculum Framework for State Human and Animal Food Laboratory Professionals
Lab Framework (Current Version)

State Human and Animal Food Laboratory Professionals Curriculum Framework - July 2017

Certificates & Certifications

- Animal Food
- Human Food
- Shellfish
- Laboratory Evaluation Officer
- Mentoring
- Instrument Repair
- Animal Health
- Animal Food
- Human Food
- Shellfish
- Chemistry
- Microbiology
- Validation Methods
- Method Modification / Development
- Risk Analysis
- Measurement Uncertainty
- Labeling
- Internal Audit
- Grant Writing
- Evidence-Based Decision Making
- Allergens
- Acidified Foods
- Expert (Program Specific)
- Expert
- Mid (Program Specific)
- Mid
- Entry (Program Specific)
- Entry

- 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
- Epidemiology, Foodborne Illness Investigation, & Response
- Critical Thinking
- Evidence Management
- Regulatory Testing Methods
- Food and Feed Emergencies
- Legal Proceedings
- National Laboratory Networks
- Public Speaking
- Root Cause Analysis
- Technical Writing Skills
- Traceability

- Animal Food
- Dairy
- Environmental
- Animal Health
- Biosafety Level 3
- Select Agents
- Shellfish
- Animal Food Safety
- Environmental Conditions
- Dairy Product Safety

- Basic Chromatography
- Basic Separation / Extraction Techniques
- Basic Spectroscopy
- Aseptic Techniques
- Basic Foodborne Pathogens
- Microbial Testing

- EP1
- EP2
- EP3
- EP4
- EP5
- EP6
- EP7
- EP8
- EP9
- EP10
- EP11
- EP12
- EP13
- EP14
- EP15
- EP16

© 2017 Last updated July 28, 2017
The Laboratory Framework is being built out through a Cooperative Agreement with FDA, AIFDO, AAFCO, and APHL.

Interactive National Curriculum Standard (INCS): http://in.inifpti.org

AAFCO
APHL
<table>
<thead>
<tr>
<th>FDA / USDA</th>
<th>State</th>
<th>State</th>
<th>APHL</th>
<th>AFDO</th>
<th>AAFCO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Rice</td>
<td>Patty Lucas (FL)</td>
<td>Steve Sobek (former WI)</td>
<td>Cathy Johnson</td>
<td>Yvonne Salfinger</td>
<td>Nancy Thiex</td>
</tr>
<tr>
<td>Holly Rhodes</td>
<td>Maria Ishida (NY)</td>
<td>Dirk Shoemaker (former NE)</td>
<td>Robyn Randolph</td>
<td>Ron Klein</td>
<td></td>
</tr>
<tr>
<td>Paul Morin</td>
<td>Kathleen Wickman (OR)</td>
<td>Reginald Blackwell (DC)</td>
<td>OTED (formerly DHRD)</td>
<td>Karna</td>
<td>CFIA</td>
</tr>
<tr>
<td>Cassandra Kontas</td>
<td>Tom Phillips (MD)</td>
<td>Dana Shell (GA)</td>
<td>Will Bet-Sayad</td>
<td>Anthony Barbagallo</td>
<td>Neil Vary</td>
</tr>
<tr>
<td>Richelle Richter</td>
<td>Gale Hagood (MS)</td>
<td>Susan Murphy (VA)</td>
<td></td>
<td></td>
<td>Deb Moir</td>
</tr>
<tr>
<td>Charles Pixley</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Corinne Pequignot</td>
</tr>
</tbody>
</table>
• All competencies and performance indicators built out for the Entry Core Content Areas
• Course Design Documents delivered to APHL
Competency development for Entry Level Program-Specific Content Areas started May 2017
Future Steps

• Build out narrow competencies and performance indicators for Chemistry and Microbiology Program Areas (Entry Level)

• Create Course Design Documents (blueprints) for Chemistry and Microbiology Program Areas (Entry Level)

• Advance upward on the Framework (Mid Level)
• “Developing a Competency Framework for U.S. State Food and Feed Testing Laboratory Personnel”
  – Volume 97, No. 3, 2014
Questions?

Christopher Weiss, IFPTI

chris.weiss@ifpti.org