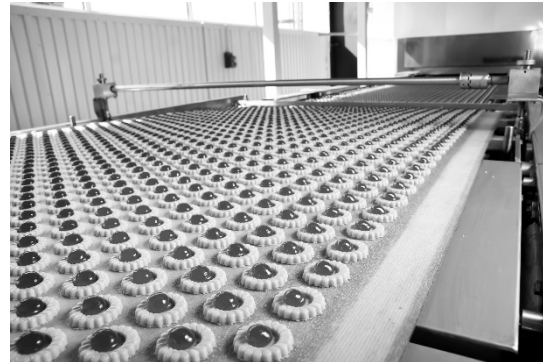




ifpti

INTERNATIONAL
FOOD PROTECTION
TRAINING INSTITUTE



State Human and Animal Food Laboratory Curriculum Framework



- Project involves:
 - APHL
 - AFDO
 - AAFCO
 - FDA OTED (formerly DHRD)
 - IFPTI
- Goal: a Competency-Based Curriculum Framework for State Human and Animal Food Laboratory Professionals

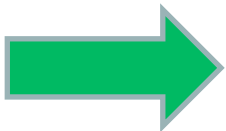
ifpti		State Human and Animal Food Laboratory Professionals Curriculum Framework - July 2017																		FDA U.S. FOOD & DRUG ADMINISTRATION				
Senior Administration	Accreditation / Certification	Advocacy	Budget	Change Management	Continuity of Operations	Facility Management	Human Resource Management	ISO (Section 4)	Legislative Affairs	Leadership / Executive Program	Organizational Culture	Policy Making	Program / Grant Management	Public Relations	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management	Future Leaders	IFSS	Business Practices	Emerging Issues / Technologies	Required Period Training
Supervisor / Manager Program Specific	Advanced Chemistry				Advanced Microbiology				Conflict Resolution and Mediation	Incident Command System (ICS)	Negotiation	Risk Communication Introduction	Publications	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management						
Supervisor / Manager	Advanced Chemistry		Advanced Microbiology		Conflict Resolution and Mediation	Incident Command System (ICS)	Negotiation	Risk Communication Introduction											Publications	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management
Expert (Program Specific)	Animal Food	Human Food	Shellfish	Instrument Repair					Laboratory Evaluation Officer	Mentoring	Non-Technology	Animal Health	Animal Food	Human Food	Shellfish	Certificates & Certifications								
Expert	Acidified Foods	Allergens	Evidence-Based Decision Making	Grant Writing	Internal Audit	Labeling	Measurement Uncertainty	Method Modification / Development	Risk Analysis	Validation Methods	Chemistry	Microbiology	Certificates & Certifications											
Mid (Program Specific)	Animal Food	Animal Health	Dairy	Environmental	Human Food	Shellfish	Audit	Hazardous Material Shipping	Infectious Agent Shipping	Waste Management	Animal Food Safety	Animal Health	Food Safety	Environmental Conditions	Milk and Dairy Product Safety	Shellfish	Certificates & Certifications							
Mid	Critical Thinking	Epidemiology, Foodborne Illness Investigation, & Response	Evidence Management	Regulatory Testing Methods	Food and Feed Emergencies	Legal Proceedings	National Laboratory Networks	Public Speaking	Root Cause Analysis	Technical Writing Skills	Traceability	Certificates & Certifications												
Entry (Program Specific)	Animal Food	Dairy	Environmental	Animal Health	Biosafety Level 3	Select Agents	Shellfish	Animal Food Safety	Environmental Conditions	Dairy Product Safety	Certificates & Certifications													
Entry	Accreditation/ Certification	Basic Communication Skills	Basic Laboratory Math	Basic Laboratory Statistics	Basic Laboratory Techniques	Chain of Custody	Ethics	Incident Command Systems (ICS)	Laboratory Information Management System (LIMS)	Method Resources	Public Health Principles	Quality Management Systems	Regulatory Programs	Regulatory Sampling	Safety	Sample Handling	Waste Management	IFSS						
	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18						



Framework Development Work Group

FDA / USDA	State	State	APHL	AFDO	AAFCO
Dan Rice	Patty Lucas (FL)	Steve Sobek (former WI)	Cathy Johnson	Yvonne Salfinger	Nancy Thiex
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Richelle Richter	Gale Hagood (MS)	Susan Murphy (VA)			Deb Moir
Charles Pixley					Corinne Pequignot

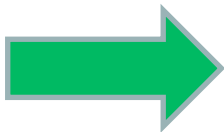
Senior Administration	Accreditation / Certification	Advocacy	Budget	Change Management	Continuity of Operations	Facility Management	Human Resource Management	ISO (Section 4)	Legislative Affairs	Leadership / Executive Program	Organizational Culture	Policy Making	Program / Grant Management	Public Relations	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management	Future Leaders	IFSS	Business Practice	Emerging Issues / Technologies	Required Period Training										
Supervisor / Manager Program Specific	Advanced Chemistry				Advanced Microbiology				Laboratory Evaluation Officer	Mentoring	Nanotechnology	Animal Health	Animal Food	Human Food	Shellfish	Instructor Development	Project Management																	
Supervisor / Manager	Conflict Resolution and Mediation		Incident Command System (ICS)		Negotiation		Risk Communication Introduction																											
Expert (Program Specific)	Certificates & Certifications																																	
Expert	Animal Food		Human Food		Shellfish		Instrument Repair		Laboratory Evaluation Officer		Mentoring		Nanotechnology		Animal Health		Animal Food		Human Food		Shellfish		Chemistry		Microbiology									
Mid (Program Specific)	Certificates & Certifications																																	
Mid	Animal Food		Animal Health		Dairy		Environmental		Human Food		Shellfish		Audit		Hazardous Material Shipping		Infectious Agent Shipping		Waste Management		Animal Food Safety		Animal Health		Food Safety		Environmental Conditions		Milk and Dairy Product Safety		Shellfish			
Entry (Program Specific)	Certificates & Certifications																																	
Entry	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			
Entry	Accreditation / Certification		Basic Communication Skills		Basic Laboratory Math		Basic Laboratory Statistics		Basic Laboratory Techniques		Chain of Custody		Ethics		Incident Command Systems (ICS)		Laboratory Information Management System (LIMS)		Method Resources		Public Health Principles		Quality Management Systems		Regulatory Programs		Regulatory Sampling		Safety		Sample Handling		Waste Management	



- 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 (Chemistry and Microbiology) started May 2017

Senior Administration	Accreditation / Certification	Advocacy	Budget	Change Management	Continuity of Operations	Facility Management	Human Resource Management	ISO / Section 4	Legislative Affairs	Leadership / Executive Program	Organizational Culture	Policy Making	Program / Grant Management	Public Relations	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management	Future Leaders	IFSS	Business Practices	Emerging Issues / Technologies	Required Period Training
Supervisor / Manager Program Specific	Advanced Chemistry				Advanced Microbiology				Conflict Resolution and Mediation	Incident Command System (ICS)	Negotiation	Risk Communication Introduction	Mentoring	Hazardous Material Shipping	Infectious Agent Shipping	Waste Management	Animal Food Safety	Animal Health	Food Safety					
Supervisor / Manager	Advanced Chemistry		Advanced Microbiology		Certifications & Certifications	Instrument Repair	Laboratory Evaluation Officer	Hepato-technology												Animal Health	Animal Food	Human Food	Shellfish	Chemistry
Expert (Program Specific)	Animal Food	Human Food	Shellfish	Instrument Repair					Laboratory Evaluation Officer	Mentoring	Hepato-technology	Animal Health	Animal Food	Human Food	Shellfish	Chemistry	Microbiology							
Expert	Acidified Foods	Allergens	Evidence-Based Decision Making	Grant Writing	Internal Audit	Labeling	Measurement Uncertainty	Method Modification / Development	Risk Analysis	Validation Methods														
Mid (Program Specific)	Certifications & Certifications																							
	Animal Food	Animal Health	Dairy	Environmental	Human Food	Shellfish	Audit	Hazardous Material Shipping	Infectious Agent Shipping	Waste Management	Animal Food Safety	Animal Health	Food Safety	Environmental Conditions	Milk and Dairy Product Safety	Shellfish								
Mid	Gas Chromatography - Mass Spectrometry (GCMS)		Inductively Coupled Plasma Mass Spectrometry (ICPMS)		Liquid Chromatography - Mass Spectrometry (LCMS)		National Laboratory Networks Methods		Radiological		Advanced Technologies		National Laboratory Networks Methods											
	Critical Thinking	Epidemiology, Foodborne Illness Investigation, & Response		Evidence Management	Regulatory Testing Methods	Food and Feed Emergencies	Legal Proceedings	National Laboratory Networks	Public Speaking	Root Cause Analysis	Technical Writing Skills	Traceability												
Entry (Program Specific)	Certifications & Certifications																							
	Animal Food		Dairy		Environmental		Animal Health		Biosafety Level 3		Select Agents		Shellfish		Animal Food Safety		Environmental Conditions		Dairy Product Safety					
Entry	Basic Chromatography		Basic Separation / Extraction Techniques			Basic Spectroscopy			Aseptic Techniques			Basic Foodborne Pathogens			Microbial Testing									
	EP1	EP2	EP3	EP4	EP5	EP6																		
Entry	Accreditation/ Certification	Basic Communication Skills	Basic Laboratory Math	Basic Laboratory Statistics	Basic Laboratory Techniques	Chain of Custody	Ethics	Incident Command Systems (ICS)	Laboratory Information Management System (LIMS)	Method Resources	Public Health Principles	Quality Management Systems	Regulatory Programs	Regulatory Sampling	Safety	Sample Handling	Waste Management	E18						
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18							



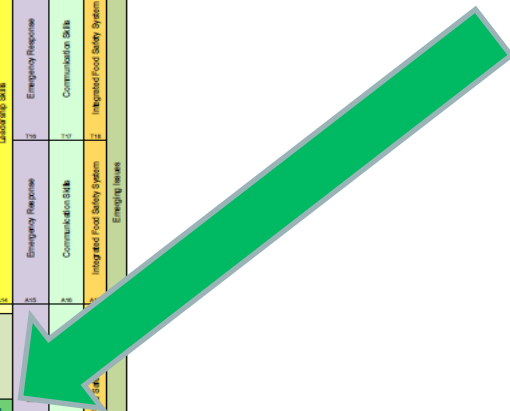
Senior Administration	Accreditation / Certification	Advocacy	Budget	Change Management	Continuity of Operations	Facility Management	Human Resource Management	ISO (Section 4)	Legislative Affairs	Leadership / Executive Program	Organizational Culture	Policy Making	Program / Grant Management	Public Relations	Risk Analysis (Management & Communication)	Stakeholder Support	Systems Analysis	Instructor Development	Project Management	Future Leaders	IFSS	Business Practice	Emerging Issues / Technologies	Required Period Training	
Supervisor / Manager Specific	Advanced Chemistry			Advanced Microbiology					Conflict Resolution and Mediation	Incident Command System (ICS)	Negotiation	Risk Communication Introduction	Mentoring	Non-technology	Animal Health	Animal Food	Human Food	Shellfish							
Supervisor / Manager	Animal Food		Human Food		Shellfish		Instrument Repair	Laboratory Evaluation Officer											Measurement Uncertainty	Method Modification / Development	Risk Analysis	Validation Methods	Chemistry	Microbiology	
Expert (Program Specific)	Certificates & Certifications																				Future Leaders	IFSS	Business Practice	Emerging Issues / Technologies	Required Period Training
Expert	Acidified Foods	Allergens	Evidence-Based Decision Making	Grant Writing	Internal Audit	Labeling	Measurement Uncertainty	Method Modification / Development	Risk Analysis	Validation Methods															
Mid (Program Specific)	Certificates & Certifications																				Future Leaders	IFSS	Business Practice	Emerging Issues / Technologies	Required Period Training
	Mid	Animal Food	Animal Health	Dairy	Environmental	Human Food	Shellfish	Audit	Hazardous Material Shipping	Infectious Agent Shipping	Waste Management	Animal Food Safety	Animal Health	Food Safety	Environmental Conditions	Milk and Dairy Product Safety	Shellfish								
Entry (Program Specific)	Certificates & Certifications																				Future Leaders	IFSS	Business Practice	Emerging Issues / Technologies	Required Period Training
	Entry	Accreditation/ Certification	Basic Communication Skills	Basic Laboratory Math	Basic Laboratory Statistics	Basic Laboratory Techniques	Chain of Custody	Ethics	Incident Command Systems (ICS)	Laboratory Information Management System (LIMS)	Method Resources	Public Health Principles	Quality Management Systems	Regulatory Programs	Regulatory Sampling	Safety	Sample Handling	Waste Management							



- Begin work on the Mid-Level Core Content Areas
 - May 8-10, 2018 (Silver Spring, APHL Office)

- **Crosswalk** GOODSamples vs. Main IFSS Sampling competencies – Meeting to take place at MFRPA (Albuquerque, Jan 31, 2018)

ifpti	INTERNATIONAL FOOD PROTECTION TRAINING INSTITUTE	Integrated Food Safety System Food Protection Professionals Curriculum Framework	FDA U.S. FOOD & DRUG ADMINISTRATION																									
Certificate and CEU Issuance													Emergency Response	Communication Skills	Regulatory Foundations													
Level 4 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Leadership	Advocacy	Communication Management	Compliance	Human Resource Management	Laws & Regulations	Legislative Affairs	Mediation	Organizational Design	Program Resources	Risk Management	Strategic Planning	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations													
Level 3 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Technical Specialist (Program Specific)	Dairy - on farm Program	Eggs (shell) Program	Fish & Seafood Program	Produce Program	Shellfish Growing Areas Program	USDA APHIS	Animal Food Program	Dairy Processing Program	Meat & Poultry (USDA/FSIS)	Manufactured Food Program	Shellfish Plant Program	Retail Food Program	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations												
Level 2 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Technical Specialist (Expert)	Audit	Critical Thinking	Food Defense Vulnerability Assessment	Legal Process/Design Preparation	Management Skills	Policy Development	Professional Development Planning	Program Evaluation	Project Management	Reference Materials	Report Evaluation	Risk Analysis	Supervision Skills	Research Design (Elective)	Statistical Analysis (Elective)	Regulatory Foundations												
Level 1 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Advanced (Program Specific)	Dairy - on farm Program	Eggs (shell) Program	Fish & Seafood Program	Produce Program	Shellfish Growing Areas Program	Shellfish Plant Program	USDA APHIS	Import Concentration (FDA)	Animal Food Program	Dairy Processing Program	Meat & Poultry (USDA/FSIS)	Manufactured Food Program	Shellfish Plant Program	Specialized (of Interest) (SAs)	Research Travel Program (SAs)	National Marine Fisheries Service (DCAAL)	Vessel Sanitation Program (VSP)	Retail Food Program	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations						
Level 0 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Advanced	Enforcement	Evidence	Feed / Food Defense	Imports	Inspections	Investigative Skills	Laboratories	Outbreak Investigation	Product Disposition	Risk Analysis	Sampling	Transportation	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations												
Level 0 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Entry (Program Specific)	Dairy - on farm Program	Eggs (shell) Program	Produce Program	Shellfish Growing Areas Program	USDA APHIS	Import Foundations (Federal Agencies)	Animal Food Program	Dairy Processing Program	Game	Meat & Poultry (USDA/FSIS)	Manufactured Food Program	Shellfish Plant Program	Retail Food Program	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations											
Level 0 Professional Certificate													Emergency Response	Communication Skills	Regulatory Foundations													
Entry (Basic)	Allergens*	Biological Hazards	Biosecurity	Data & Information Systems	Environmental Hazards	Food/Food Defense	HACCP	Impacts	Inspections/Compliance Enforcement	Investigation/Response	Jurisdiction	Labeling	Laws, Regulations and Product Recall	Personal Safety	Pest Control	Planning	Prevention	Public Health Programs	Recall	Risk	Sampling	Sanitation Problems	Traceability	Transportation	Leadership Skills (Executive)	Emergency Response	Communication Skills	Regulatory Foundations
Regulatory Foundations 01													Emergency Response	Communication Skills	Regulatory Foundations													



- *“Developing a Competency Framework for U.S. State Food and Feed Testing Laboratory Personnel”*
 - *Volume 97, No. 3, 2014*

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