



Food and Feed Laboratory Professionals

Curriculum Framework

Senior Administration Level 4500	4900	SAC1 Certificates & Certifications (CC)																		Accelerator/Certification (AC)	Change Management (CM)	Emerging Issues (EI)	Human Resource Management (HR)	International Organization for Standardization (ISO) (section 4)	Public Relations (PR)	Leadership/Executive Program (LE)	Instructor Development (ID)	Project Management (PE)	Integrated Food Safety System (IFSS) Implementation (II)	Future Leaders (FL)	Required Period Training (RT)	Emerging Technologies (ET)	Emerging Issues (EI)											
	4500	Advocacy (AV) SA1	Budget (BU) SA2	Continuity of Operations (CO) SA3	Facility Management (FM) SA4	Legislative Affairs (LA) SA5	Organizational Culture (OC) SA6	Policy Making (PM) SA7	Program Grant Management (PG) SA8	Risk Analysis (Management & Communication) (RI) SA9	Stakeholder Support SA10	Systems Analysis (SA) SA11																																
Supervisor/Manager Level 4000	4400	KCC1 Certificates & Certifications (CC)																		Advanced Chemistry (AD) SA1	Advanced Microbiology (AM) SA2	Conflict Resolution and Mediation (CR) SA3	Incident Command Systems (ICS) (IC) SA4	Negotiation (NG) SA5	Risk Communication Introduction (RC) SA6	Feed (FE) EXC2	Food (FO) EXC3	Shellfish (SF) EXC4	Animal Health (AH) EMI3	Feed (FE) EMI4	Food (FO) EMI5	Shellfish (SF) EMI6	Instrument Repair (IR) EXE2	Laboratory Evaluation Officer (EO) EXE3	Mentoring (ME) EXE4	Nanotechnology (NA) EXE5	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13	
	4300	Advanced Chemistry (AD) SA1																																										Advanced Microbiology (AM) SA2
Expert Level 3000	3900	EXCC1 Certificates & Certifications (CC)																		Feed (FE) EXC2	Food (FO) EXC3	Shellfish (SF) EXC4	Animal Health (AH) EMI3	Feed (FE) EMI4	Food (FO) EMI5	Shellfish (SF) EMI6	Instrument Repair (IR) EXE2	Laboratory Evaluation Officer (EO) EXE3	Mentoring (ME) EXE4	Nanotechnology (NA) EXE5	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13							
	3200	EXCC1 Certificates & Certifications (CC)																																										
Mid-level 2000	3100	EXC1 Chemistry Concentration (EC)																		Acidified Foods (AF) EX1	Allergen (AL) EX2	Evidence-based Decision Making (DM) EX3	Grant Writing (GW) EX4	Internal Audit (IU) EX5	Labeling (LB) EX6	Measurement Uncertainty (MU) EX7	Method Modification/Development (MD) EX8	Risk Analysis (RN) EX9	Validation Methods (VM) EX10	Microbiology (MV) EX11	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13							
	3000	EXC1 Chemistry Concentration (EC)																																										
Entry Level 1000	2900	MCC1 Certificates & Certifications (CC)																		Animal Health (AH) MC1	Dairy (DA) MC2	Feed (FE) MC3	Food (FO) MC4	Shellfish (SF) MC5	Animal Health (AH) MME	Feed (FE) MME	Food (FO) MME	Shellfish (SF) MME	Audit (AU) ME2	Waste Management (WM) ME3	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13							
	2400	MCC1 Certificates & Certifications (CC)																																										
Entry Level 1000	2300	MC1 Chemistry Concentration (MC)																		Gas Chromatography-Mass Spectrometry (GCMS) (GC) MC1	Hazardous Material Shipping (HM) MC2	Inductively Coupled Plasma Mass Spectrometry (ICPMS) (CS) MC3	Liquid Chromatography-Mass Spectrometry (LCMS) (LC) MC4	National Laboratory Networks Methods (LN) MC5	Advanced Technologies (TC) MM2	Biosafety Level 3 (BL) MM3	Infectious Agent Shipping (IA) MM4	National Laboratory Networks Methods (LM) MM5	Audit (AU) ME2	Waste Management (WM) ME3	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13							
	2200	MC1 Chemistry Concentration (MC)																																										
Entry Level 1000	2100	MCC1 Certificates & Certifications (CC)																		Critical Thinking (CT) MP	Epidemiology, Foodborne Illness Investigation, & Response (EP) MP	Evidence Management (EM) MP	Federal Regulatory Testing Methods (FR) MP	Food and Feed Emergencies (FF) MP	Legal Proceedings (LP) MP	National Laboratory Networks (NL) MP	Public Speaking (PS) MP	Root Cause Analysis (RO) MP	Technical Writing Skills (TW) MP	Traceability (TR) MP	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13							
	2000	MCC1 Certificates & Certifications (CC)																																										
Entry Level 1000	1900	KCC1 Certificates & Certifications (CC)																		Animal Health Certification (AE) EM4	Dairy Certification (DC) EM5	Environmental (EN) EM6	Feed (FE) EM7	Food (FO) EM8	Shellfish Certification (SC) EM9	Radiological (RA) EM10	Animal Health (AH) EMI3	Dairy (DA) EMI4	Environmental (EN) EMI5	Feed (FE) EMI6	Food (FO) EMI7	Shellfish (SH) EMI8	Select Agents (SE) EE2	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13				
	1500	KCC1 Certificates & Certifications (CC)																																										
Entry Level 1000	1300	KCC1 Certificates & Certifications (CC)																		Animal Health (AH) EMI3	Dairy (DA) EMI4	Environmental (EN) EMI5	Feed (FE) EMI6	Food (FO) EMI7	Shellfish (SH) EMI8	Radiological (RA) EM10	Animal Health (AH) EMI3	Dairy (DA) EMI4	Environmental (EN) EMI5	Feed (FE) EMI6	Food (FO) EMI7	Shellfish (SH) EMI8	Select Agents (SE) EE2	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13				
	1200	KCC1 Certificates & Certifications (CC)																																										
Entry Level 1000	1100	EC1 Chemistry Concentration (EC)																		Aseptic Techniques (AT) EM2	Basic Microbiology (BM) EM3	Basics of Enzyme-Linked Immunosorbent Assay (ELISA) (EL) EM4	Basic Polymerase Chain Reaction (PCR) (PC) EM5	Biosafety Cabinet (BI) EM6	Culture (CU) EM7	Electives (EE) EE1	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13											
	1000	EC1 Chemistry Concentration (EC)																																										
Entry Level 1000	1000	EC1 Chemistry Concentration (EC)																		Accreditation/Certification (AC) ES1	Basic Communication Skills (BS) ES2	Basic Laboratory Math ES3	Basic Laboratory Statistics (LS) ES4	Basic Laboratory Techniques (LT) ES5	Chain of Custody (CH) ES6	Ethics (EH) ES7	Incident Command Systems (ICS) (IC) ES8	Integrated Food Safety System (IFSS) (IO) ES9	Laboratory Information Management System (LIMS) ES10	Method Resources (MR) ES11	Public Health Principles (PH) ES12	Quality Management Systems (QA) ES13	Regulatory Programs (RP) ES14	Regulatory Sampling ES15	Safety (SY) ES16	Sample Handling (SP) ES17	Waste Management (WM) ES18	Instructor Development (ID) EX14	Project Management (PE) EX15	Integrated Food Safety System (IFSS) Implementation (II) EX12	Future Leaders (FL) EX10	Required Period Training (RT) EX11	Emerging Technologies (ET) EX12	Emerging Issues (EI) EX13
	1000	EC1 Chemistry Concentration (EC)																																										

Intended Audience: Food and feed laboratory professionals (does not focus on administrative support, information technology, security, janitorial, or other such support professionals).
Note: Core content areas (common training that everyone at that professional level should take) are denoted by dotted borders.