

## Regulatory Food and Feed Laboratory Professionals Curriculum Framework

|                               |  |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
|-------------------------------|--|------------------------------------|---|-------------------------|-----------------------------|---------------------------------|--|--|--|-----------------------------|---|---------------------|---|--|--|------------------------------|---|---------------------------------|---|
| Senior Administration Level   | Certificates & Certifications                      |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
|                               | Advocacy   | Budget                             | Continuity of Operations                                  | Facility Management     | Legislative Affairs         | Organizational Culture          | Policy Making  | Program/ Grant management                        | Risk Analysis (Management & Communication)                         | Stakeholder Support         | Systems Analysis                                | Change Management   | Emerging Issues                                     | Human Resource Management  | International Organization for Standardization (ISO) (section 4) | Leadership/Executive Program | Public Relations                          | Instructor Development          | Project Management                                  |
| Certificates & Certifications |  |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
| Supervisor/ Manager Level     | Advanced Chemistry                                 |                                    |   |                         |                             | Microbiology                    |  |  |  |                             | Change Management                               | Emerging Issues     | Human Resource Management                           | International Organization for Standardization (ISO) (section 4) | Leadership/Executive Program                                     | Public Relations             | Instructor Development                    | Project Management              | Integrated Food Safety System (IFSS) Implementation |
|                               | Conflict Resolution and Mediation                  |                                    | Incident Command Systems (ICS)                            |                         | Negotiation                 | Risk Communication Introduction |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
| Expert Level                  | Certificates & Certifications                      |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
|                               | Feed   |                                    | Food  |                         |                             | Shellfish                       |  |  | Animal Health  |                             | Feed  |                     | Food  |  | Shellfish  |                              | Instructor Development                    | Project Management              | Integrated Food Safety System (IFSS) Implementation |
|                               | Validation Methods                                 |                                    |   |                         |                             |                                 |  |  | Validation Methods   |                             |   |                     |   |  |  |                              |   |                                 |   |
| Acidified Foods               | Allergen   | Evidence-based Decision Making     | Grant Writing   | Internal Audit          | Labeling                    | Measurement Uncertainty         | Method Modification/ Development                     | Nanotechnology                                   | Risk Analysis  | Root Cause Analysis         | Validation Methods                              |                     |   |  |  |                              |   |                                 |   |
| Mid-level                     | Certificates & Certifications                      |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
|                               | Animal Health                                      |                                    | Dairy   |                         | Feed                        |                                 | Food   |  | Shellfish  |                             | Animal Health                                   |                     | Feed  |  | Food   |                              | Shellfish                                 |                                 |   |
|                               | FDA Food Emergency Response Network (FERN) Methods |                                    | Gas Chromatography–Mass Spectrometry (GCMS)               |                         | Hazardous Material Shipping |                                 | Inductively Coupled Plasma Mass Spectrometry (ICPMS) |  | Liquid Chromatography–Mass Spectrometry (LCMS)                     |                             | Advanced Molecular Technologies                 |                     | Biosafety Level 3                                   | Food Emergency Response Network (FERN) Methods                   |  | Infectious Agent Shipping    | Laboratory Response Network (LRN) Methods |                                 | PulseNet Methods                                    |
|                               | Critical Thinking                                  |                                    | Epidemiology, Foodborne Illness Investigation, & Response |                         | Evidence Management         | FDA Regulatory Testing Methods  |  | Food and Feed Emergencies                        | Laboratory Networks  |                             | Legal Proceedings                               |                     | Public Speaking                                     |  | Technical Writing Skills   | Traceability                 |   | USDA Regulatory Testing Methods |   |
| Entry Level                   | Certificates & Certifications                      |                                    |   |                         |                             |                                 |  |  |  |                             |   |                     |   |  |  |                              |   |                                 |   |
|                               | Animal Health Certification                        |                                    | Dairy Certification                                       |                         | Environmental               | Feed                            | Food   | Shellfish Certification                          | Radiological   | Animal Health Certification |   | Dairy Certification |   | Environmental  | Feed   | Food                         | Shellfish Certification                   |                                 |   |
|                               | Animal Health                                      |                                    | Dairy   |                         | Environmental               | Feed                            | Food   | Shellfish  | Radiological   | Animal Health               |   | Dairy               |   | Environmental  | Feed   | Food                         | Shellfish                                 |                                 |   |
|                               | Basic Chromatography                               |                                    |   | Basic Mass Spectroscopy |                             | Chemical Fume Hood              |  | Separation Techniques                            |  | Aseptic Techniques          | Basic Microbiology                              |                     | Basics of Enzyme-Linked Immunosorbent Assay (ELISA) |  | Basic Polymerase Chain Reaction (PCR)                            |                              | Biosafety Cabinet                         | Culture                         |   |
| Basic Communication Skills    | Basic Laboratory Statistics                        | Basic Laboratory Techniques (math) | Chain of Custody  | Ethics                  |                             | Incident Command Systems (ICS)  | Inspection Sampling                                  | Integrated Food Safety System (IFSS) Orientation | International Organization for Standardization (ISO) Accreditation |                             | Laboratory Information Management System (LIMS) |                     | Public Health Principles                            | Quality Assurance  | Reference Method Resources                                       | Regulatory Programs          | Safety                                    | Select Agents                   | Waste Management                                    |

Annual Updates

**Intended Audience:** Regulatory 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 border