



INDEAVOR

# 6 Training Requirements All Food Processing Facilities Need to Manage

Guide



# Intro

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The food processing industry relies on well-trained employees to ensure safety, efficiency, and compliance. While the FDA's Food Safety Modernization Act (FSMA) regulations set critical food safety standards, additional training is essential for maintaining a strong workforce and avoiding operational risks. This guide outlines 6 key training requirements that all food processing facilities should manage beyond FSMA.



# #01 GENERAL FOOD SAFETY & HYGIENE

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Food safety and hygiene are the foundation of any food processing facility. A single lapse in sanitation or hygiene can lead to contamination, foodborne illness outbreaks, costly recalls, and reputational damage. Employees must be trained to follow strict hygiene protocols to ensure product safety and regulatory compliance.

## **Personal Hygiene & Handwashing**

- The importance of handwashing in preventing contamination.
- Proper handwashing technique, including scrubbing duration and drying methods.
- When to wash hands (e.g., before handling food, after breaks, restroom use, touching equipment, etc.).
- Use of gloves: when to wear, how to change them properly, and how to avoid cross-contamination.
- Personal cleanliness: maintaining trimmed nails, avoiding strong perfumes, and proper use of hairnets and beard covers.

## **Cross-Contamination Prevention**

- Separation of raw and ready-to-eat food products.
- Proper cleaning and sanitizing of cutting boards, knives, and utensils.
- Color-coded equipment for different food groups (e.g., separate tools for raw meat vs. vegetables).
- Safe storage techniques (e.g., keeping raw meats below ready-to-eat foods in the refrigerator).
- Allergen cross-contact prevention: segregation, labeling, and proper handling.

## **Safe Food Handling & Storage Practices**

- Temperature control: understanding the danger zone (40°F–140°F or 4°C–60°C).
- FIFO (First In, First Out) storage method to prevent expired products from being used.
- Proper thawing techniques (e.g., refrigeration, running water, and microwave—never at room temperature).
- Avoiding bare-hand contact with ready-to-eat foods by using gloves or utensils.
- Recognizing signs of food spoilage (e.g., color changes, off smells, mold growth).

## **Cleaning & Sanitation Procedures**

- Cleaning vs. sanitizing: understanding the difference and when to apply each.
- Proper use of cleaning chemicals, including dilution and contact time.
- Daily, weekly, and deep-cleaning schedules for processing areas.
- Cleaning and sanitizing food-contact surfaces and equipment.
- Handling and storing cleaning tools properly to avoid cross-contamination.

## **Pest Control Awareness & Prevention**

- Common food facility pests (e.g., rodents, insects, birds) and their risks.
- Proper waste disposal and maintaining clean break areas.
- Sealing entry points and monitoring facility perimeters.
- Recognizing and reporting signs of pest activity (e.g., droppings, gnaw marks, nests).

## **Relevant Certifications**

- Good Manufacturing Practices (GMP) Certification | NSF, AIB International
- Certified Professional in Food Safety (CP-FS) | NEHA
- Hazard Analysis and Critical Control Points (HACCP) for Food Handlers | International HACCP Alliance
- Food Allergen Awareness Certification | FAACT
- Integrated Pest Management (IPM) Certification | NPMA

# OCCUPATIONAL HEALTH & SAFETY #02

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Workplace injuries and safety violations can lead to severe consequences, including employee harm, operational disruptions, legal liabilities, and costly penalties. The food processing industry has unique hazards, such as heavy machinery, chemical exposure, and repetitive motions. OSHA compliance training ensures that workers understand workplace safety protocols, reducing accidents and maintaining a safe environment.

## **Personal Protective Equipment (PPE) Usage**

- When and how to wear PPE: gloves, aprons, masks, ear protection, safety goggles.
- Selecting the right PPE for specific job functions.
- Proper disposal and storage of PPE.
- PPE maintenance and replacement schedules.

## **Safe Lifting Techniques & Ergonomics**

- Proper lifting techniques (e.g., bending knees, keeping loads close to the body).
- Identifying ergonomic risk factors in repetitive tasks.
- Safe use of lifting aids such as dollies, forklifts, and conveyor belts.
- Stretching and exercise programs to reduce strain.

## **Hazard Communication**

- Understanding Safety Data Sheets (SDS) for hazardous chemicals.
- Proper chemical labeling and storage.
- Safe handling and use of cleaning agents and disinfectants.
- First aid response for chemical exposure incidents.



## Fire Safety & Emergency Response

- Proper use of fire extinguishers (PASS method: Pull, Aim, Squeeze, Sweep).
- Fire prevention strategies (e.g., avoiding electrical overload, proper storage of flammable materials).
- Emergency evacuation plans and designated exit routes.
- Responding to smoke, gas leaks, or chemical spills.

## Relevant Certifications

- **OSHA 10-Hour or 30-Hour General Industry Certification** | OSHA
- **Lockout/Tagout (LOTO) Training Certification** | OSHA, NSC
- **Hazard Communication (HAZCOM) Certification** | OSHA
- **Fire Safety & Emergency Response Certification** | NFPA



# #03 HACCP & PREVENTIVE CONTROLS

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The Hazard Analysis and Critical Control Points (HACCP) system is a globally recognized framework for ensuring food safety. While FSMA mandates Preventive Controls for Human Food, HACCP provides a structured approach for identifying, monitoring, and mitigating food safety hazards. Food & beverage processing facilities must implement HACCP-based preventive controls to comply with industry regulations, prevent foodborne illness, and reduce the risk of recalls.

## Principles of HACCP

- Conducting a hazard analysis. Identifying biological, chemical, and physical hazards in raw materials and processing steps.
- Determining critical control points (CCPs). Pinpointing specific processing steps where hazards can be controlled (e.g., cooking, cooling, metal detection).
- Establishing critical limits. Setting measurable parameters for controlling hazards (e.g., cooking poultry to 165°F/74°C).
- Monitoring procedures. Implementing regular checks to ensure CCPs are within critical limits.
- Corrective actions. Defining protocols for handling deviations from critical limits.
- Verification activities. Ensuring HACCP systems are working effectively through audits and data review.
- Recordkeeping and documentation. Maintaining detailed logs for regulatory compliance and food safety verification.



## **Preventive Controls for Food Safety**

- Understanding hazard-based vs. risk-based approaches in food safety.
- Developing Preventive Controls Qualified Individual (PCQI) plans to manage foodborne risks.
- Food allergen management to prevent cross-contact.
- Environmental monitoring for pathogens (e.g., Listeria, Salmonella).
- Supply chain preventive controls for raw ingredient verification.

## **HACCP Recordkeeping & Regulatory Compliance**

- Writing and maintaining HACCP logs for critical control points.
- Keeping temperature, pH, and sanitation logs updated.
- Preparing for FDA, USDA, or third-party food safety audits.
- Training employees on how to respond to food safety inspections.

## **Relevant Certifications**

- HACCP Certification | International HACCP Alliance, NSF, AIB International
- Preventive Controls Qualified Individual (PCQI) Certification | FSPCA
- GFSI (Global Food Safety Initiative) HACCP Training | BRCGS, SQF, FSSC 22000
- Certified HACCP Auditor (CHA) | ASQ





# EQUIPMENT & MAINTENANCE #04

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Food and beverage processing facilities rely on specialized machinery for production, packaging, and sanitation. Proper equipment training ensures worker safety, regulatory compliance, product quality, operational efficiency, and a longer machine lifespan. Lack of training can lead to production downtime, product contamination, costly repairs, and workplace injuries.

## **Safe Operation of Food Processing Equipment**

- Machine start-up, shutdown, and emergency response procedures.
- Operating controls, safety features, and potential hazards.
- Understanding equipment capacity and load limits.
- Identifying and responding to unusual machine noises or malfunctions.
- Preventing cross-contamination when handling multi-product processing lines.

## **Routine Maintenance & Troubleshooting**

- Recognizing wear and tear on belts, blades, seals, and moving parts.
- Routine lubrication and calibration schedules for accuracy and efficiency.
- Basic troubleshooting techniques (e.g., resetting sensors, unclogging lines).
- Reporting and logging equipment issues before they escalate.
- Understanding the difference between preventive and corrective maintenance.

## **Calibration & Monitoring of Critical Equipment**

- Calibration of temperature probes, pH meters, and metal detectors.
- Ensuring accurate weight measurements for ingredient control.
- Monitoring pressure and flow rates in pasteurization and sterilization processes.
- Identifying deviation patterns and troubleshooting calibration efforts.

## Emergency Response & Equipment Failures

- Steps to shut down malfunctioning equipment safely.
- When to initiate production holds or recalls due to mechanical failures.
- Immediate reporting protocols for broken or unsafe equipment.
- Coordination with maintenance teams for urgent repairs.
- Understanding the impact of equipment failures on food safety hazards.

## Relevant Certifications

- GMP Equipment Handling Certification | NSF, BRCGS, SQF
- Sanitation and Hygiene Certification | NSF, AIB International
- Industrial Maintenance Technician Certification | NIMS





# #05 ALLERGEN CONTROL

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Food allergens are the leading cause of food recalls, and even trace amounts can trigger life-threatening reactions in consumers. The Food Allergen Labeling and Consumer Protection Act (FALCPA) and FSMA Preventive Controls Rule require food processors to have strict allergen management plans in place. Training ensures that employees understand how to prevent cross-contact, properly handle allergenic ingredients, and comply with labeling regulations to protect consumers and prevent costly recalls.

## **Identification of Major Food Allergens**

- Know the Big 9 food allergens (milk, eggs, peanuts, tree nuts, soy, wheat, fish, shellfish, sesame).
- How allergens can be introduced into processing through raw ingredients and supplier contamination.
- Importance of clear allergen labeling and accurate ingredient declarations.

## **Prevent Cross-Contact**

- Separation of allergenic and non-allergenic ingredients during storage, preparation, and processing.
- Dedicated equipment and utensils for allergenic vs. non-allergenic products.
- Understanding shared processing lines and scheduling strategies to prevent allergen contamination.
- Proper handling of rework materials to avoid allergen carryover.

## **Proper Labeling & Documentation for Allergen Control**

- Understanding “Contains,” “May Contain,” and “Manufactured in a Facility With” allergen statements.
- Verifying supplier allergen declarations and ingredient substitutions.
- Maintaining detailed records of allergen handling procedures.
- How to update allergen statements when changing formulations or sourcing new ingredients.

## **Cleaning & Sanitation Procedures for Allergen Removal**

- Identify high-risk areas where allergens can linger (e.g., hard-to-clean conveyor belts, hoppers).
- Proper use of validated allergen cleaning protocols (e.g., dry vs. wet cleaning).
- Testing for allergen residues using swab testing and rapid detection kits.
- Documenting sanitation procedures to verify allergen removal effectiveness.

## **Relevant Certifications**

- Allergen Management Training | NSF, AIB International
- HACCP for Allergen Control Certification | International HACCP Alliance, GFSI-recognized bodies
- GFSI (Global Food Safety Initiative) Allergen Management Training | BRCGS, SQF, FSSC 22000





# SUPPLY CHAIN MANAGEMENT #06

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Food and beverage manufacturers rely on a complex supply chain involving raw ingredients, packaging materials, and third-party vendors. A single weak link in the supply chain—such as supplier contamination, ingredient mislabeling, or storage mishandling—can result in product recalls, regulatory violations, and financial losses. Training employees in supply chain and vendor management best practices ensures food safety, quality control, and regulatory compliance across all procurement and distribution activities.

## **Supplier Qualification & Approval Process**

- Criteria for approving new suppliers (food safety audits, compliance with FSMA, GFSI standards).
- Conducting vendor risk assessments (ingredient sourcing, recall history, contamination risks).
- Supplier certifications and documentation (GMP, HACCP, SQF, BRCGS, Organic, Kosher, Halal).
- Creating Approved Supplier Lists (ASL) for procurement teams.

## **Storage, Handling & Transportation Standards**

- Cold chain management for perishable ingredients (monitoring temperature logs).
- Handling allergenic ingredients to prevent cross-contact.
- Packaging integrity inspections to prevent contamination and spoilage.
- Sanitation procedures for food transport vehicles and warehouses.

## **Recall Preparedness & Supplier Accountability**

- Developing a Supplier Recall Action Plan in case of contamination.
- Identifying critical recall points (where contamination may have occurred).
- Communicating with suppliers to ensure rapid response and documentation.
- Reporting recall incidents to regulatory agencies (FDA, USDA, CFIA, EFSA, etc.).

## **Relevant Certifications**

- FSMA Foreign Supplier Verification Program (FSVP) Certification | FDA, FSPCA
- GFSI (Global Food Safety Initiative) Supply Chain Certification | BRCGS, SQF, FSSC 22000
- Preventive Controls for Supply Chain Management Certification | FSPCA





# Conclusion

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**#01** — **General food safety & hygiene** prevents contamination, ensures product safety, and maintains regulatory compliance

**#02** — **Occupational health & safety** reduces workplace hazards, protects employee health, and prevents safety violations

**#03** — **HACCP & preventive controls** identifies, monitors, and mitigates food safety hazards to prevent recalls and foodborne illness

**#04** — **Equipment & maintenance** ensures safe machinery use, minimizes downtime, and maintains product quality

**#05** — **Allergen control** prevents cross-contact, ensures accurate labeling, and protects consumers with food allergies

**#06** — **Supply chain management** maintains food safety, quality control, and regulatory compliance across procurement and distribution



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