



IFSS Framework – Basic Level Gen Eds **B27 Traceability**

Definition: Introductory knowledge, skills, and abilities related to tracking feed and food throughout the supply chain.

Topic Area TLO (Terminal Learning Objective): Describe the role of traceability in feed and food programs.

Topic Area ELOs (Enabling Learning Objective):

- Explain product traceforward/traceback concepts.
- Trace the source of a food.
- Explain a product traceback diagram.
- Explain agency roles in traceforward/traceback.
- Identify components of product traceforward/traceback.

Unit 1: Foundations

Definition: Basic knowledge of traceability related to feed and food programs.

TLO: Describe the importance of product tracing.

ELOs:

- Define key terminology.
- Explain factors that would initiate a traceforward/traceback.
- Explain the difference between traceforward and traceback.
- Describe the importance of interagency and industry collaboration.
- Describe when traceforward/traceback is utilized.
- Describe the primary functions of CORE.
- Describe the primary function of ICS.

TLO Behavioral Anchors - not all-inclusive

- The regulator can define what product tracing is:
 - a. Difference between tracing (documentation) and tracking (following product)
 - b. Define product (ingredient to finished product)
 - c. Define trackback and traceforward
- The regulator has knowledge or awareness of the purpose of product tracing:
 - a. Find product source, e.g. grower, manufacturer, importer
 - b. To ensure safe product
 - c. Locate product to remove from commerce
 - d. Identifies responsible or accountable party
- The regulator has knowledge or awareness of why product tracing is important:
 - a. Provides product manufacturing information
 - b. Identify source of product to determine how adulteration occurred
 - c. To gather information during outbreaks (jurisdiction, interstate violation responsibility)
 - d. Provides information needed for tracking outbreak vehicles
 - e. Establishes scope and depth of a situation
 - f. Identifies potential impact zone or region
 - g. Decreases response time in a recall
- The regulator can give examples of product traceback and traceforward.
- The regulator has knowledge or awareness of the importance of communication in product tracing situations:





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	B27 Traceability
	a. Allow for ease of communication throughout
	the supply chain
	b. Information sharing
	c. Dissemination of information
Unit 2: Preliminary Review	TLO Behavioral Anchors - not all-inclusive
Definition: Analysis of	
surveillance data to determine if a	The new detember by suded as an expression of the
traceforward/traceback	The regulator has knowledge or awareness of the
investigation is warranted.	product tracing process.
, and the second	The regulator has an awareness of how products are
	identified:
TI O. Identify the critical	a. Production records: date, run time:
TLO: Identify the critical	b. Labeling info (brand name, ingredients, net
information from the surveillance	weight, etc.)
reports needed for a	c. Lot numbers or other identification
traceforward/traceback.	d. Product distribution list
	e. Firm information (address, key personnel)
	f. Manufacturer or grower information
ELOs:	g. Distributor information
	h. Shipper info, i.e. trucking company and date
 Describe routine 	shipped
surveillance activities	The regulator has knowledge or awareness of the
that might trigger a	importance of firm history information:
traceforward/traceback.	a. Inspection history
 Describe the 	The regulator has knowledge or awareness of the
importance of time	factors to consider for tracing:
frames when reviewing	a. Pending imminent health hazards
surveillance reports.	b. Epi findings or ties to foodborne outbreaks
 Identify the potential 	c. Product/environmental samples
health risk indicated by	d. Vector and/or vehicle
surveillance data.	e. Analysis report
 Describe the subject 	f. Outbreak demographics
matter expertise	g. Target customers
needed to assess	h. Date and location of initial finding (a place to
surveillance data.	start)
 Explain how the RFR 	i. Hazard associated with the product
contributes to	j. Aware of the risk associated with the hazard
conducting	k. Foodborne illness reporting
traceforward/traceback	Implicated product(s) and associated
investigations.	products
	m. Degree of certainty with product
	n. Consumer complaints
	The regulator can list factors to consider during

Unit 3: Supply Chain

TLO Behavioral Anchors - not all-inclusive

b. Packaging type or materialc. Components of the productd. Intended use of the product

a. Process or treatment performed on product

product tracing:





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Definition: The system of moving raw or manufactured products and ingredients from growing/raising, harvesting, processing, and manufacturing and all distribution points to consumption.

TLO: Discuss the complexity of traceability throughout the supply chain.

ELOs:

- Explain the farm to table concept.
- Describe major transportation systems.
- Describe industry best practices for product traceability.
- Describe how foreign suppliers may affect traceability.
- Explain how to use a traceback diagram to identify potential points of contamination in the supply chain.
- Explain requirements for industry to disclose customer purchases to regulatory agencies.

- The regulator has knowledge or awareness of product flow through the food production chain:
 - a. Define supply chain and give an example
 - b. Give examples of food chains
 - c. List stakeholders to the supply chain
 - d. Growing, harvesting, packing/processing, shipping, distributing, manufacturing, point of sale
- The regulator has knowledge or awareness of the importance of records:
 - a. Accurate
 - b. Legible
 - c. Accessible
 - d. Incomplete or missing records (batch, production, shipping)
 - e. One step forward, one step back
- The regulator has knowledge or awareness of the challenges of traceability:
 - a. Incomplete or missing product identification
 - b. An ingredient can be used in multiple products with multiple companies
 - c. Distribution can be worldwide
 - d. Language barriers
 - e. The sheer volume of a production run
 - f. Shelf life can vary between perishable and shelf stable
- The regulator has knowledge or awareness and knowledge of the challenges of traceability:
 - a. Supply chain relations (including regulator)
 - b. Diversity of operations (examples consolidators, repackers, warehouses, importers, shippers)
 - c. Distribution can flow through multiple wholesale and retail chains
 - d. Changing consumer trends
 - Increase in farm to table
 - Increase consumption of raw product
 - Cottage foods
 - e. Identifying parties responsible for the product (broker, distributor, firm)
 - f. Proprietary information
 - g. Firm's definition of the term "lot" (e.g. produce industry)
 - h. Global product identification
- The regulator has knowledge or awareness of the jurisdictional issues.





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	a. Jurisdictional boundaries	
	b. Awareness of changing authorities through the	
	supply chain	
Unit 4: Documentation	TLO Behavioral Anchors - not all-inclusive	
Definition: The records		
needed when doing a		
traceforward/traceback.	The regulator can give three examples of types of	
tracerorward/traceback.	records for determining traceforward and traceback:	
	a. Sanitary transport records	
TIO 5 1 1 1 1	b. Signatures	
TLO: Explain key documents	c. Invoices/bills of lading	
needed for tracing product	d. Production log	
movement.	e. Receipts	
	f. Shipping documents	
	g. Certificates of analysis	
ELOs:	h. Hazard analysis	
I along C.C	i. Food safety plan	
Identify documents	j. Lot number	
used to track product movement.	k. Shelf life	
	I. Product label	
 Describe document retention requirements 	The regulator can explain the importance of regulatory	
for the industry.	documentation:	
Give examples of	a. Regulatory notes	
documents that should	b. Interview notes	
be collected.	c. Photographs	
Give examples of key	d. Product/Process flow diagram	
information needed for	e. Sample receipts	
product tracing.	The regulator can locate relevant agency policies:	
Describe the	a. Recall effectiveness checks	
importance of collecting	b. Embargo	
documents for the	The regulator can give six examples of records for	
timeframes of interest.	determining traceforward and traceback.	
	The regulator can demonstrate the effective collection	
	of regulatory documentation.	
	The regulator can describe relevant agency policies.	
Unit 5: Communications	TLO Behavioral Anchors - not all-inclusive	
Definition: Information sharing		
Definition: Information sharing and messaging strategies		
	The regulator can give examples of status	
between agencies and stakeholders during a	communication:	
traceforward/traceback.	a. Keep supervisor apprised	
tracerorward/traceback.	b. Email/phone clarifications of assigned tasks	
	c. Keeping firm apprised of progress	
TI O. Dian	The regulator has knowledge or awareness of the	
TLO: Discuss requirements for	existence of agency policy:	
communication during a	a. Proprietary information	
traceforward/traceback.	b. Communication restrictions	





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ELOs:

- Describe the importance of interagency/industry communication.
- Explain how communication is coordinated during a traceback.
- Identify requirements related to information sharing.
- Explain how the ICS system is used to facilitate communications.

- c. Affidavits
- d. Lab reports
- The regulator can identify three effective ways of communicating during traceforward and traceback:
 - a. Interview techniques
 - b. Memos
 - c. Can ask clarifying/relevant questions
 - d. Effective notetaking
 - e. Speaking to the most responsible person
 - f. Clear and concise
 - g. Can follow instructions
 - h. Logic model (timeline of steps)
- The regulator can identify one record that must be maintained for accuracy:
 - a. Transport records
 - b. Supplier list
 - c. Lot numbers
 - d. Facility location
 - e. Accurate contact list
 - f. Regulatory notes
- The regulator can explain the importance of status communication.
- The regulator can identify a traceforward and traceback communication policy.
- The regulator can role play an effective way of communicating during traceforward and traceback.
- The regulator can identify three records that must be maintained for accuracy.

Unit 6: Technology

Definition: The systems or devices used to enhance traceability.

TLO: Explain how technology is used to improve traceability.

ELOs:

- Give examples of technology used to track products.
- Describe how data systems can help identify patterns.
- Discuss advantages

TLO Behavioral Anchors - not all-inclusive

- The regulator can list two means of technology used in traceability:
 - a. Wi-Fi access to real-time answers
 - b. Global Positioning System (GPS)
 - c. Electronic records
 - d. Camera technology
 - e. Cell phone apps
- The regulator has knowledge or awareness of relevant traceability databases:
 - a. Reportable food registry
 - b. Radio-frequency identification (RFID) technology
 - c. Shopper identification cards
- The regulator can give an example of how technology improves traceability:
 - a. Ease of exchange





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of using technology to enhance traceability.

- b. Faster verification
- c. Economically motivated adulteration
- d. Finding documentation
- e. Genome sequencing
- The regulator recognizes the impact of communication outlets on traceability:
 - a. Radio/television reporting for consumer safety
 - b. Social media
- The regulator can give an example of how to use technology in traceability.
- The regulator can give an example of a relevant database.
- The regulator can give three examples of how technology improves traceability.
- The regulator can identify communication outlets.