MODULE 3

Inventory Management



SLMTA Participant's Manual

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ACTIVITY SUMMARY SHEET

ACTIVITY Creating a List of Supplies for a Test

Module 3

PURPOSE:

To create a comprehensive inventory list, the laboratory must first identify which essential supplies are needed to support the total testing process. In this activity, participants create a supply list for a specific test. Essential supplies, commonly overlooked, will become more apparent for the participant during this activity.

This activity supports the following laboratory management tasks and SLIPTA checklist items			
Management Tasks	 2.5 Ensure that safety equipment is accessible and readily available (e.g., place safety equipment such as sharp box and PPE close to work station to encourage use) 3.1 Review inventory log of all equipment and parts 3.2 Review inventory log of all supplies and reagents 		
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	 5.16 Laboratory Testing Services Has the laboratory provided uninterrupted testing services, with no disruptions due to equipment failure in the last year (or since the last audit)? 7.1 Inventory and Budgeting System Is there a system for accurately forecasting needs for supplies and reagents? 7.5 Budgetary Projections Are budgetary projections based on personnel, test, facility and equipment needs, and quality assurance procedures and materials? 7.12 Laboratory Testing Services Has the laboratory provided uninterrupted testing services, with no disruptions due to stock outs in the last year or since last audit? 		

KEY MESSAGES

- An essential supply is one that is capable of affecting the quality of the laboratory's services.
- Essential supplies can be identified by reviewing the pre-analytical, analytical, and post analytical phases of the total testing process.
- An essential supply item must first be identified before it can be incorporated into the laboratory's inventory process.

Can you:

- Create a list of essential supplies for a specific test?
- Recognize the essential supplies needed for a test at each phase of the total testing process?

SELF-ASSESSMENT

ACTIVITY SUMMARY SHEET

ACTIVITY What's Wrong with this Storeroom?

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Module 3
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PURPOSE:

An important component of inventory management is the storage oversight and handling of reagents and supplies needed for laboratory testing. In this activity, participants assess the deficiencies of a simulated storeroom.

This activity supports	This activity supports the following laboratory management tasks and SLIPTA checklist items			
Management Tasks	 2.7 Ensure reagents & chemicals are stored properly 3.4 Enforce good stock management practices (proper storage, stock cycling, inspection of incoming orders, etc.) 3.5 Inspect quality of existing inventory and dispose of expired test kits, reagents, supplies and equipment according to policy 6.4 Validate new equipment, reagents, and supplies 			
<text><text><text><text><text></text></text></text></text></text>	 Laboratory Policies and Standard Operating Procedures Are policies and/or standard operating procedures (SOPs) for laboratory functions, technical and managerial procedures current, available and approved by authorized personnel?(Purchasing and Inventory Control; Accommodation and Environmental Conditions; Laboratory Safety Manual) Routine Review of Quality and Technical Records Does the laboratory routinely perform a documented review of all quality and technical records? <u>Inventory Control</u> Does the lab maintain records for each reagent and consumable that contributes to the performance of examinations? <u>Laboratory Inventory System</u> <u>Storage Area</u> Are storage areas set up and monitored appropriately? <u>Inventory Organization and Wastage Minimization</u> Is First-Expiration-First- Out (FEFO) practiced? <u>Product Expiration</u> Are all reagents/test kits in use (and in stock) currently within the manufacturer-assigned expiration or within stability? Are environmental conditions checked and reviewed accurately? <u>Laboratory Storage Areas</u> Is laboratory-dedicated cold and room temperature storage free of staff food items, and are patient samples stored separately from reagents and blood products in the laboratory refrigerators and freezers? <u>Laboratory Safety Manual</u> Is a laboratory safety manual available, accessible, and up-to-date? <u>Hazardous Chemicals</u> Are hazardous chemicals / materials properly handled? 			

∧ KEY MESSAGES

- An organized and clean stockroom is essential for inventory management.
- An organized storeroom facilitates proper storage and cycling, physical stock-counts, and accurate inventory records.
- Proper storage and handling of reagents and supplies is essential to the testing process.

Can you:

- Recognize the important role an organized stockroom has in inventory management?
- Assess a storage area and identify issues?
- Provide solutions to address storeroom organizational issues?

SELF-ASSESSMENT

For this activity, you will need:

Job Aid: Proper Inventory Storage Guidelines (301)

Proper Inventory Storage Guidelines³⁰¹

Identify a	a secure and adequate storage site	Organize the supplies carefully
	Locked Accessible only to authorized personnel Free from extreme temperature and humidity Free from direct sunlight exposure Free of pests Free from excess moisture (water leaks and drips) Free of clutter and trash Adequate ventilation Sufficient lighting	 Use shelves and bins to organize supplies Store according to temperature requirements Store similar items together (controls with controls, calibrators with calibrators) Group identical items in smaller groups that are easy to count Arrange items within each group by alphabetical order Store all items on shelves (not on the floor) Label the shelves with the name of each item in that
	ed by manufacturer for each reagent and supply Keep ambient supplies in designated well maintained and monitored room (record temperature daily) Keep refrigerated supplies in designated well maintained and monitored refrigerators (record temperature daily)	 area of the shelf Perform inventory management of supplies and reagents Store all items on shelves with shorter expiry dates at the front (FEFO) Rotate stock (FIFO) Check for any expired reagents/supplies Designate, where appropriate, an area or on
Ensure s	Keep frozen supplies in designated well maintained and monitored freezer (record temperature daily) afety of storage area Appropriate storage of hazardous chemicals	 the items themselves: Received, not yet evaluated Evaluated, ready for use Not acceptable for use, to be returned or disposed
	according to MSDS Glass or breakable items are stored on lower shelves All items are properly identified and labeled	

ACTIVITY SUMMARY SHEET

ACTIVITY Did You Receive What You Ordered?

Module 3

PURPOSE:

A laboratory must have a process developed to inspect the quality and quantity of reagents and supplies before they are placed into storage or use. In this activity, participants compare the purchasing document with the shipping invoice and the items received. In addition to the receipt inspection, participants learn to place and submit orders properly, maintain proper inventory records, track orders placed, and resolve discrepancies.

This activity supports	the following laboratory management tasks and SLIPTA checklist items
Management Tasks	1.13 Communicate to upper management regarding personnel, facility, and operational needs
	3.4 Enforce good stock management practices (proper storage, stock cycling, inspection of incoming orders, etc.)
	4.3 Monitor procurement orders
	4.4 Appropriately document and maintain accurate records of all purchase orders and requisitions
<section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header>	 Laboratory Policies and Standard Operating Procedures Are policies and/or standard operating procedures (SOPs) for laboratory functions, technical and managerial procedures current, available and approved by authorized personnel? (External Services and Suppliers; Purchasing and Inventory Control; Identification and Control of Nonconformities) Policy and SOPs Accessibility Are policies and SOPs easily accessible/ available to all staff and written in a language commonly understood by respective staff? Routine Review of Quality and Technical Records Does the laboratory routinely perform a documented review of all quality and technical records? Management Review Does the laboratory management perform a review of the quality system at a management review meeting at least annually? Does the laboratory provide specification for their supplies and consumables that are required when placing a requisition? Service Supplier Performance Review Does the lab monitor the performance of the suppliers to ensure that the stated criteria is met? Inventory Control Does the lab maintain records for each reagent and consumable that contributes to the performance of examinations? Management Review of Supply Requests Does management review/approve the finalized supply requests? Laboratory Inventory System A re quality indicators (TAT, rejected specimens, stock-outs, etc.) selected and tracked?

KEY MESSAGES

- The laboratory must have a process to inspect the quality and quantity of reagents and supplies before they are placed into storage or use.
- The order request must be compared and reconciled with the shipping invoice and the items received.
- Any discrepancies or issues encountered during the receipt of inventory inspection must be addressed and documented.

Can you:

- Compare the order request with the shipping invoice and the items received?
- Identify discrepancies and issues during the receipt of inventory inspection?
- Suggest follow-through actions to resolve discrepancies and issues?
- Update inventory records?

SELF-ASSESSMENT

For this activity, you will need:

- Job Aid 1: Making a Phone Call (304)
- □ Job Aid 2: Receipt Checklist (305)

Making A Phone Call

When Making A Service Call

Make sure you have the following information:

- Instrument model
- Instrument serial number
- Description of the problem
- Actions already taken
- Appropriate contact information
 - -Direct service contact number
 - -Laboratory number for service technician to return calls

At the end of the call, you should know:

- Date/time of the call
- Person with whom you spoke
- Next steps to be taken
- When (timeframe) they will be taken
- Note date for follow-up on management calendar

TIPS

Make sure you have the correct number Speak clearly and courteously Gather all the information before the call Have a pen ready to write down information Always document the call afterwards



When Calling About An Order

Be ready to describe the problem with the order:

- Missing item?
- Wrong item?
- Wrong amount?
- Expiry date too close?
- Damaged product?
- Unacceptable condition?

After the call, document:

- Reason for the call
- Date/time of the call
- Person with whom you spoke
- Corrective action (what was promised, when will it take place, etc.)

Receiving Inspection Checklist³⁰⁵

Receipt Inspection Performed By: _____

Receipt Inspection Date: _____ Invoice Number _____

Shipment Arrival Date: _____

□ The order is complete and acceptable

□ All discrepancies are documented

Discrepancy	Item's Name
Wrong Item	
Wrong Quantity	
Damaged Item	
Defective Item	
Back-ordered Item	
Missing Item	
Item Not Requested by Laboratory	

Attach a copy of the invoice and order request with checklist.

- □ The correct items were shipped
- □ No items are missing
- Quantity of items received matches quantity indicated on invoice
- **Quantity of items received matches quantity requested by laboratory**
- □ Manufacturer's expiry date is acceptable
- □ Items transported at the correct shipping temperature
- Cold packs are cold (refrigerated items) or frozen or partially thawed (frozen items).
- □ Items are not crushed, broken or leaking.
- Any broken or leaking item has been handled safely and disposed of properly
- □ Any manufacturer's alerts or changes to the package insert are noted
- □ Inventory records are updated
- □ A copy of the invoice and order request is retained in the laboratory.
- □ Shipment is unpacked and properly integrated with existing inventory
 - Each item is labeled with the receipt date and the receiving person's initials before placed into storage or use.
 - $\circ~$ Each item is stored behind existing items in the correct bin or area. (FIFO)
 - Items are rotated following FEFO
 - Items to be evaluated or returned to vendor are clearly marked and segregated from items ready for use.