Strengthening Laboratory Management Toward Accreditation



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BACKGROUND

To strengthen the tiered laboratory systems of its member countries in a stepwise fashion, WHO-AFRO has established a Stepwise Laboratory Quality Improvement Process Towards Accreditation (SLIPTA) initiative in accordance with its core functions of setting norms and standards and building institutional capacity. In partnership with WHO-AFRO, the US Centers for Disease Control and Prevention (CDC), the American Society for Clinical Pathology (ASCP), and the Clinton Foundation developed this task-based, hands-on training program to facilitate implementation of this initiative.

PURPOSE

This program aims to strengthen laboratory management, achieve immediate laboratory improvement, and accelerate the preparedness toward accreditation.

UNIQUE FEATURES

Task-based curriculum: The foundation of this program is a framework that defines the tasks a laboratory manager must perform in order to deliver quality laboratory services which support optimal patient care. Training activities are designed to enable laboratory managers to accomplish those tasks, using tools and job aides to enhance their management routines. It empowers laboratory managers to initiate immediate laboratory improvement measures, even without additional resources.

Training content closely linked to the SLIPTA Checklist: Another unique feature of the program is its linkage to the WHO-AFRO SLIPTA Checklist. The checklist serves as a roadmap for a laboratory moving towards accreditation, as it defines a well-managed laboratory in terms of observable, measurable results. It is also used to guide supervisory visits and planning for laboratory improvement projects. The same laboratory management tasks that guided the design of the training activities also informed the development of the WHO-AFRO SLIPTA Checklist. As a result, participants see a clear link between a task they are learning and resulting checklist items.

Emphasis on action and tangible improvement: An emphasis on action sets this program apart from laboratory management programs that impart only theoretical knowledge. Laboratory improvement projects are an integral part of this multiple-workshop program. Participants are assigned laboratory improvement projects after each workshop. Facilitators or supervisors visit participants' laboratories, provide coaching, and assess the progress. In subsequent workshops, participants present their improvement projects and share results and lessons learned. These sessions offer a great opportunity for participants to learn from each other and they facilitate the formation of a peer-learning network.

TARGET AUDIENCE

This program covers tasks performed by managers in level-II laboratories, as defined in the framework. However, managers from national reference laboratories (level IV) and regional laboratories (level III) can also benefit from this program as the tasks required to achieve laboratory accreditation are essentially the same.

PROGRAM LENGTH

This highly interactive program is composed of more than 40 hands-on activities. To offer it in its entirety would require more than 9 days of training. Therefore, it is recommended that the training be delivered through a series of short workshops, with participants implementing laboratory improvement projects and supervisors providing support visits between workshops. In addition to classroom training, this program may be used as a mentor's or supervisor's toolkit for on-site training. Individual activities or tools may be selected on as-needed basis depending on the gaps identified during site visits.

This toolkit contains an introduction, a cross-cutting section, and 10 modules. The crosscutting section includes several activities that span the entire curriculum. The table below lists the key segments and estimated time requirement.

Toolkit Co	ntent	Estimated Duration
Introduction		50 min
Cross-Cutting	g	18 hrs 30 min
Module 1.	Productivity Management	11 hrs 15 min
Module 2.	Work Area Management	3 hrs 20 min
Module 3.	Inventory Management	2 hrs 30 min
Module 4.	Procurement Management	1 hr 15 min
Module 5.	Routine/Preventive Maintenance of Equipment	1 hr 55 min
Module 6.	Quality Assurance	3 hrs 55 min
Module 7.	Specimen Collection & Processing	3hrs 35 min
Module 8.	Laboratory Testing	1 hr 45 min
Module 9.	Test Result Reporting	2 hrs 20 min
Module 10.	Documents & Records Management	50 min
	ESTIMATED TOTAL TIME:	52 Hours Plus IP Reports, Site Visits & Debrief

This training toolkit provides a comprehensive foundation to effect immediate behavioral changes and laboratory improvement. However, additional training and mentoring are necessary in order to achieve longer, lasting improvement and accreditation. Topics include:

- Quality control
- Biosafety
- Laboratory quality management system
- Writing SOPs
- Method validation
- Root cause analysis

USE **ICON** Specifies the tasks from the laboratory management framework that the activity is designed to teach Indicates the checklist items that are supported by the management tasks taught in the activity. Successful performance of the tasks will fulfill the requirements for the checklist items. Denotes related activities; trainers are encouraged to reiterate the applicable points from the relevant activity to augment the learning Advises that there is a pre-requisite to the activity; the prerequisite must be met before proceeding to this activity Indicates PowerPoint slides are used; slide numbers are referenced following the icon

Suggests assigning overnight homework for participants to complete

TERM	USE
Handout	Provides information participants need during an activity
Worksheet	For use by participants during an activity to record their answers
Job aid	Provides tips, guidelines, and checklists participants can use back at work
ΤοοΙ	Serves as a physical sample of a document or provides additional activity information to assist the facilitator in conducting the activity

A GUIDE TO THE TOOLKIT – How To Use

Overview	module, followed by the detailed description of each activity.	What's in this Modu	Overview	
Performance Outcome		ACTIVITY TITLE	PURPOSE	DURATION
With satisfactory participation in the training and successful implen improvement projects, a participant's laboratory should achieve the	entation of laboratory following outcome:	Process + Structure	Optimal laboratory design involves two factors:	
 Efficient workflow 	3488	= Outcome	physical layout of the allotted space and workflow	
 Evenly distributed workload 			performed in that space. In this activity, participants	2 hrs
 Uninterrupted service delivery 			design a laboratory layout with regards to the workflow using the provided floor plan.	
Checklist Items Supported by this Module		Improving a Problem	Optimal laboratory design requires that the physical	
This module supports the requirements for the following items from Checklist for mid-level laboratories:	the WHO-AFRO Accreditation	Ploor Plan	work environment is sare and appropriate for testing. In this activity, participants will identify hazardous elements in the work environment of the provided laboratory floor plan. Using the floor plan	45 min
7.14, 8.3, 9.1, 9.3, 9.4, 9.8, 9.10, 9.15, 11.1, 12.1, 12.2, 12.3, 12.4,	12.8, 12.10, 12.11,12.16		participants will redesign the layout so that the	
Learning Objectives (Management Tasks)		Mapping Out the	A activition in this modules title	
By the end of this module, participants should be able to perform that tasks:	ne following management	Floor Plan of Your Laboratory	purpose, and estimated	
 Organize the laboratory and coordinate work space to al service operations 	low for smooth, efficient			1 hr 25 min
2. Design workflow for optimal productivity			im	
Prioritize and assign work according to personnel skill le completion timeframe	vel, workloads, and	Redesigning the	A productive laboratory can be redesigned if	
Assess personnel competency against standards and de and training needs	termine corrective action	Floor Plan of Your Laboratory	opportunities, possibilities, and potential problems are recognized. To effectively redesign a	
Conduct weekly staff meetings to coordinate activities, re reward success, celebrate accomplishments, and resolve	eview lab operations, e issues		interrelationships between space, workflow, and equipment. In this activity participants redesign their	45 min
Meet with staff individually to communicate expectations coaching, or on-the-job training to ensure competency at the state of the state of	, provide feedback, nd productivity		laboratory layout to improve the workflow by repositioning movable items in their floor plan.	
7. Provide/coordinate new-hire orientation and training to s	aff	Making a Cup of Tea	Simple, daily tasks can easily become laborious	
 Maintain and update personnel records (training, certification assessment) 	ation, competency		when the needed supplies and materials are not readily available. This activity demonstrates that organization is the key to performing any daily	20 min
Create a work plan and budget based on personnel, test needs	, facility, and equipment		activity, including making a cup of tea.	
10. Create/review/forward reports on lab operations to upper	rmanagement		-	
 Implement measures to motivate staff to improve quality (e.g., training, job rotation, employee of the month, thank 	of work and productivity x-you letter, etc.)	Whisper Down the Alley	To demonstrate the need for written step-by-step procedures so that staff members perform tasks in a standardized manner. The activity highlights the	
 Develop and implement lab improvement plans based or feedback from staff, patients, customers, quality indicato assessment 	n best practices and rs, and external		difference between how verbal directions can easily be mis-communicated and how written instructions consistently convey the information accurately.	20 min
13. Communicate to upper management regarding personnel, facil	ity, and operational needs			



A GUIDE TO THE TOOLKIT - How To Use

A GUIDE TO THE TOOLKIT - How To Use



A GUIDE TO THE TOOLKIT – How To Use



PowerPoint Slide (Notes Page)

Assembling Participant Material



Purpose: To scale up quickly while maintaining the authenticity, standardization, and quality of the SLMTA program to propel laboratories toward accreditation.

Guideline #1: Distinguish between SLMTA Training and TOT

Know the difference. See comparison table below.

	SLMTA Training	SLMTA TOT
		(Training of Trainers)
Who are the	Qualified Trainers (see Guidelines #2	Qualified Master Trainers (see
facilitators?	and #3 for criteria)	Guideline #4 for criteria)
Who are the	Lab managers, QA officers, or	Trainers who will implement SLMTA
participants	implement improvement in their	workshops mentoring and making
	own laboratories	supervisory visits to monitor
		improvement projects
Criteria for selecting	Minimum of 1-2 years of technical	Minimum of 1-2 years of technical
the participants	e participants and QA experience in a general	and QA experience in a general
	clinical laboratory setting	clinical laboratory setting
	Laboratory management experience	Proven ability to manage a
	preferred	laboratory successfully
	Commitment & motivation for	Experienced in training and
	laboratory improvement	mentoring laboratory staff
		Designated by MOH to implement
		SLMTA in support of the
		accreditation process
		Highly motivated
Duration/delivery	Three 3-4 day workshops, separated	One 2-week long workshop
model	by 3-month periods for	
	improvement project	
	implementation and on-site	
	supportive supervision	
What are	Apply the SLMTA training to their	Demonstrate leadership in planning
participants	facility to improve laboratory	for national rollout of SLMTA in
expected to do after	operations and management based	accordance with national
training?	on gap analysis.	accreditation goals.
		Conduct a gap analysis based on
	Execute improvement plans	findings from baseline audit using
	between workshops.	the WHO-ARFO SLIPTA Checklist
	Achieve at least one-star increment	Implement SLMTA program map in-
	from baseline audit on the WHO-	country.
	AFRO SLIPTA Checklist by the	Teach activities, conduct site visits
	completion of the program map.	and monitor and validate
		improvement projects.

Guideline #2: Use only Qualified Trainers for SLMTA Training

A qualified trainer meets <u>all</u> of the following criteria:

- Full participation in an ILB-sponsored or endorsed TOT (at ACILT or in country)
- Recommendation from a Master Trainer based on Teachback performance

Guideline #3: Use Team Teaching

SLMTA training should be taught by a team of facilitators. Qualified trainers fresh from TOT should be paired with an experienced trainer for at least their first SLMTA training and receive feedback from more experienced colleagues in the style of the TOT.

Guideline #4: Use only Qualified Master Trainers to Teach TOT

Master Trainers must be <u>qualified SLMTA trainers</u> and meet <u>one</u> of the following criteria:

- Have assisted in teaching a SLMTA TOT with a Master Trainer<u>and</u> received the recommendation to become a Master Trainer.
- Have co-facilitated SLMTA training with other qualified trainers through the full 3-workshop series and demonstrated laboratory improvement results at the end of the SLMTA program.

Guideline #5: Form a National Team

Consider forming a national team of trainers and mentors with dedicated time for SLMTA rollout. Conducting training and follow-up site visits takes time should not be imposed upon someone who already has a full-time job.

Guideline #6: Keep CDC/International Laboratory Branch in the Loop

All requests for in-country TOT must involve CDC/GAP/ILB in the planning process.

- ILB will assist with planning to ensure all critical factors are considered.
- ILB will provide technical assistance for organizing/facilitating the in-country TOT with partners.

Guideline #7: Keep Class Size Small

Given the hands-on nature of SLMTA, it is imperative that class size remains small. See table below for "Trainer to Participant Ratio." Another consideration is the number of labs represented in each cohort. Resources must be allocated for follow-up visits and monitoring of improvement project implementation. If resources are limited in that regard, you should limit the number of participating labs in each phase of rollout.

	SLMTA Training	SLMTA TOT
Trainer-to-	1:12	1:8
Participant Ratio	(but not to exceed 24 people)	(but not to exceed 24 people)

Guideline #8: Plan SLMTA programs with the follow-up requirements fully in mind

Ensure adequate resources to support the requisite improvement projects and site visits. At a <u>minimum</u> a coach or mentor should visit each participating laboratory (or section of a large laboratory) soon after each workshop to ensure the start of the improvement projects, and again before the next workshop to monitor and validate the progress of the improvement projects. Each visit should be at least half day long. The number of laboratories in a cohort

and their distance from each other will determine amount of resources (manpower, transportation costs) required, or vice versa.

Guideline #9: Start Small and Focused

Countries should initially work with a small number of pilot laboratories to establish a success model before large-scale rollout. The number of labs targeted for accreditation at any given time will depend on available resources, time, will and capability. Pilot laboratories are selected based on a baseline audit with the WHO AFRO SLIPTA Checklist and fulfillment of SLMTA's entry prerequisites:

- Lab director, with decision-making power, in place
- QA manager in place
- Participant committed to same job responsibilities throughout the program (preferred)

Guideline #10 – Monitor SLMTA Program Rollout Properly

Ensure SLMTA implementation is monitored properly.

- Use the WHO-AFRO SLIPTA Checklist for baseline audit (before the commencement of SLMTA) and the exit audit. The difference in the scores between the baseline and the exit audits is the training impact.
- Use a qualified auditor to conduct baseline audit and the exit audit. Qualifications can be either completion of WHO AFRO auditor training or training in ISO 17025 or ISO 15189.
- Additionally, use the WHO-AFRO SLIPTA Checklist for on-going monitoring of participating laboratories by coaches and mentors.

Guideline #11: Build In-Country Capacity

To ensure sustainability, in-country trainers should be used as much as possible without compromising the quality of the program or compliance with the aforementioned guidelines. If SLMTA implementation is done through partners, in-country trainers who have completed the SLMTA TOT should be incorporated into the training team whenever possible.

Guideline #12: Consider these Costs

Plan for the following cost categories:

SLMTA training	3-workshop series: Workshop 1 (4 days), Workshop 2 (3 days),
	Workshop 3 (3 days)
	Trainer and participant per diem, training venue, lodging, teaching
	materials, printing cost, etc.
SLMTA site visits	Two visits per site after each workshop, each at least ½ day long
	(total of 6 visits per site), multiplied by the number of labs
	Transportation time and costs (fuel, vehicle, driver, etc.)
Other trainings	Consider Quality Control, Writing SOPs, How to be an effective QA
	Manager, BioSafety, QMS, etc.
Audit	Auditor fee for baseline audit and end-of-workshop audit
Lab renovation	As needed basis
Accreditation process	Consult WHO-AFRO Stepwise Laboratory Improvement Process
	Towards Accreditation (SLIPTA) policy and guidelines

SLMTA IMPLEMENTATION READINESS CHECKLIST

Pre-SLMTA

A.	Strate	egic Country Planning for Laboratory Accreditation	
	1.	Is political will for accreditation present?	
		Are the key persons with the power to accomplish accreditation supportive and committed to accreditation?	
	2.	Are resources allocated?	
	3.	Are systems in place that will be needed to accomplish accreditation? (Specifically supply chains, equipment maintenance, quality assurance, logistics, etc.)	
	4.	Will the SLMTA program be included in the country accreditation plan?	
		If so, are funding streams and partner support aligned toward this goal?	
	5.	How will the country's needs for other complementary programs, (i.e. Biosafety, Quality Control, Quality Management Systems, Training for QA Managers, SOP Writing, etc.) be met?	
	6.	Are laboratory referral networks in place and functioning?	
	7.	Are accommodations for External Quality Assessment /Proficiency Testing in place?	
в.	Stake	holder Meeting	
	1.	Are all key stakeholders identified?	
	2.	Do laboratory leaders meet personally with all key stakeholders prior to meeting?	
		Has the strategic plan been shared?	
		 Has each stakeholder been given an opportunity to determine how his/her organization can provide assistance and fit into this plan? 	
		Has a commitment of support from each stakeholder been assured prior to the meeting?	

	3.	Is the Strategic Plan used to guide the outcome of the meeting?		
	4.	Is the meeting an opportunity to affirm support from all key stakeholders and provide momentum to the accreditation plan?		
C.	Basel	ine Audit		
	1.	Is the baseline audit conducted?		
		Do qualified personnel conduct it?		
		Is the SLIPTA Checklist used?		
		When undertaking the audits with the in-country personnel, is consideration given to the makeup of the audit team (i.e. experience, expertise, availability) as well as the division of checklist among team members and in the different departments, report compilation and completion, etc.?		
	2.	Is this baseline used to select the labs for accreditation? Are the laboratories divided for staging of the program, with first phase candidate labs that will begin the program and second phase candidate labs that will participate once program success has been demonstrated?		
	3.	Is this baseline used to perform gap analysis?		
		 Are these results communicated to the laboratory/laboratories involved? 		
	4.	Is the gap analysis used to direct and prioritize the accreditation plan?		
		Are results used to guide laboratory improvement?		
		SLMTA Program		
A. Participant Selection				
	1.	Are the participants selected with regard to the SLMTA Implementation Guidelines?		
	2.	Are the participants selected with priority given to the laboratories chosen for the first and then second phase candidate laboratories?		
В.	Criter	ia for Completion of SLMTA		
		Have the criteria for completion and issue of SLMTA certificates been established?		

		Will certificates be issued at the end of the three workshops, or at the completion of a third round of improvement projects?	
		Has it been determined who will assess that criteria for completion have been met?	
		Has it been determined how will this be assessed?	
C. D.	Venu Work	Is a venue chosen to accommodate an interactive curriculum including sufficient wall space and room size? shop Scheduling	
	1.	Are dates, funding, and logistical support available for the three workshops?	
	2.	Is the timing of each workshop approximately 3 months apart?	
Ε.	Printi	ng of Materials	
	1.	Are roles and responsibilities for the printing and assembly of the participant manuals assigned?	
	2.	Have printing instructions been clarified?	
F.	Partic	ipant Feedback	
	1.	Are participant feedback forms printed?	
	2.	Are roles and responsibilities for collating the feedback assigned?	
	3.	Has consideration been given to how this information will be utilized?	
G.	Work	shop materials	
		Have the materials on the in-country preparation list (obtained from SLMTA) been acquired?	
н.	Regis	tration	
		Have provisions been made for participant registration?	
١.	Partici	pants details – Transportation, hotels, funding, etc	
		Have arrangements been made and clarified for these details in advance of the workshops?	
J.	Site Vi	isit Scheduling	
	1.	Are roles and responsibilities for site visits assigned?	

		 Has it been determined who will be responsible for conducting site visite? 	
		 Has oversight responsibility for the site visits been determined? 	
	2.	Are standardized site visit tools utilized (SLMTA provides these tools)?	
	3.	Has the method for assessing improvement projects been reviewed (SLMTA provides these tools)?	
К.	Impro	ovement Project Support	
	1.	Has it been determined, who will be responsible for selecting the specific Improvement Projects (SLMTA provides standardized projects, but it may be customized to better suit country needs)?	
	2.	Has the method for assessing improvement projects been reviewed (SLMTA provides these tools)?	
		Post SLMTA	
А.	Main	taining the Gains	
		Have roles and responsibilities for maintaining the supportive site visits been considered?	
в.	Movi	ng toward Accreditation	
		Are roles and responsibilities for oversight of the accreditation process assigned? Who owns accreditation – the MOH, the individual laboratories, the laboratory managers, etc?	
		Has it been determined, who will be responsible for continued post-SLMTA monitoring of the laboratories using the WHO-AFRO SLIPTA Checklist and how often it will be done?	

SLMTA PROGRAM MAP

Program Map (hyperlink)



APPENDIX

ACTIVITY Conducting a Site Visit

PURPOSE:

Site Visits are an integral part of laboratory improvement, providing the connection between the presentation of new knowledge, skills, or tools and actual laboratory practice. This activity allows participants to explore the functions of site visits, to design a format for assessment, and to gain insight into how to conduct effective site visits.

RESOURCES FOR FACILITATOR:

- DeverPoint slides: #1 #7
- Tool: Defining Questions for Assessment Development
- □ Flipchart & Markers

RESOURCES FOR PARTICIPANT:

- Worksheet: Site Visit Assessment
- Job Aid 1: Training Follow-up and Assessment
- □ Job Aid 2: Supervisory Assessment
- Job Aid 3: Improvement Project Supervisor Assessment
- Pens

This activity supports the following laboratory management tasks and audit checklist items		
Management Tasks	 1.1 Meet with staff individually to communicate expectations, provide feedback, coaching, or on-the-job training to ensure competency and productivity 1.2 Develop and implement lab improvement plans based on best practices and feedback from staff, patients, customers, quality indicators, and external assessment 	
<section-header></section-header>	 6.1 <u>Internal Audits</u> Are internal audits conducted at intervals as defined in the quality manual and do these audits address areas important to patient care? 6.2 <u>Audit Recommendations and Action Plan & Follow up</u> 11.2 <u>Quality Management System Improvement Measures</u> Does the laboratory identify and undertake continual quality improvement projects? 11.4 Are quality indicators (TAT, rejected specimens, stock-outs, etc.) selected and tracked? 	

This activity is related to the following activities:		
	Cross cutting: Process Mapping, Planning Improvement Projects - Master Class, Reporting Improvement Projects Module 2: Conducting a Safety Audit	

For TOT Only

ACTIVITY AT-A-GLANCE				
Step		Time	Resources	Key Points
1	Explore importance of site visits for laboratory improvement	10 min	Flipchart & Markers Slides #1- #3	
2	Introduce activity - Design a format for site visit/assessment	10 min	Slides #4 - #5 <u>Tool</u>	
3	Conduct the activity	15 min	Slide #6 <u>Worksheet</u>	
4	Debrief the activity	10 min	Slide #7 <u>Job Aid 1, 2, & 3</u>	
5	Conclude the Activity	5 min		
	TOTAL TIME:	50 min		

PROCESS

Preparation

• No additional preparation required.

Step 1. Explore importance of site visits for laboratory improvement 10 min

- Project Slides #1 #3. Site Visits are an integral part of laboratory improvement and an obligatory component of the SLMTA program. Focus the discussion on the benefits of site visits and how the site visits fit into the overall SLMTA program. Share the concept of multiple workshops with supportive site visits strategically situated between the workshops. Note that if site visits are so important to SLMTA, we must understand what we are to accomplish on these visits and how to conduct these visits we need a prescriptive approach to site visits. This activity will provide the needed prescription.
- Ask participants to enumerate the various possible **functions** of site visits. Explore the types of site visits and their purposes. The following are suggested responses which relate to SLMTA site visits:
 - Laboratory Audit:
 - To provide an objective measurable audit of laboratory function.
 - Training Follow-up:
 - To assess the effectiveness and appropriateness of the training curriculum and delivery
 - To provide the connection between the presentation of new information, skills, or tools and actual laboratory practice
 - Assessment of Improvement Projects
 - To ensure that improvement projects are on track for completion
 - To provide assistance with challenges encountered in the execution of the project
 - To validate improvement project results
 - Supportive supervision:
 - To coach and mentor the labortatorian in performing managerial tasks
 - To follow up on those priority issues on which the laboratory is currently working
- Capture the categories of site visits identified using the flipcharts and markers.
- Discuss the benefits of a standardized format for site visit/assessment:
 - Standardization of assessment and responses
 - Guidance to the person performing the site visit, especially if the person performing the visit is new to this laboratory
 - \circ $\;$ Guidance to laboratorians at the site as to what information will be requested
 - Documentation of site improvement priorities, i.e. what area or specific items from the SLIPTA Checklist are currently being addressed by the laboratory
 - Reminder for items that need follow-up

- Ability to make the site visit focused and efficient
- Efficient use of the valuable time
- Summarize the discussion.

Step 2. Introduce the activity - Design a format for site visit/assessment 10 min

- Project Slide #4.
- State that laboratory audits whether to establish a baseline, monitor progress, or to reach the goal of accreditation are completed using the WHO-AFRO SLIPTA Checklist.
- The site visits that are essential for SLMTA success must serve several purposes:
 1) Post-training follow-up, 2) Assessment of improvement projects, and 3)
 Follow-up on those priority issues on which the laboratory is currently working.
- Inform participants that they will be designing a format for site visit/ assessment. This format will address all of the purposes noted above.
- Discuss with participants the factors to consider when developing a format for objective evaluation. Possible considerations include:
 - First and foremost, clearly define the information that is most beneficial and most important for your purpose. Refer to <u>Tool: Defining</u> <u>Questions for Assessment Development</u>.
 - Design questions that will elicit this information most efficiently with a method that is easy to understand and administer.
 - Phrase questions clearly and unambiguously.
 - \circ $\,$ Design questions that would yield the same results irrespective of the assessor.
 - When a measured response is needed, create options that can be quantified or qualified objectively.
 - Project OSlide #5. Note that the type of question created determines the type of response generated. In general, questions can be answered by responses that are 1) open-ended, requiring a short-text response, 2) Closed, requiring a yes/no response, or 3) an array or a scaled measurement response, i.e. the Likert scale ranking responses from 1(never present) to 5 (always present).
- Divide participants into groups of 4-5 persons.
- Inform participants that they will have 10 minutes to develop questions with appropriate response types.

Step 3. Conduct the activity

Project OSlide #6.

- Refer participants to <u>Worksheet: Site Visit Assessment</u>.
- Ask them to develop at least 5 questions with response types that would meet the purpose of their site visit. Remind participants to develop an assessment to follow up training, assess & support improvement projects, and provide supervisory support, following up on priority issues. Consider working through the development of one question with the group.
- Allow 15 minutes for group work.

Step 4. Debrief the activity

- Ask groups to share the questions they developed.
- Remind them to begin by clearly defining the information needed based on the purpose of the visit. Refer to <u>Tool: Defining Questions for Assessment</u> <u>Development.</u>
- Project Old Slide #7. Relate the essential nature of the site visits to the success of laboratory improvement in general and the SLMTA program in particular.
- Refer to Job Aid 1: Training Follow-up and Assessment and Job Aid 2: <u>Supervisory Assessment</u> for suggested questions. Use Job Aid 3: Improvement <u>Project Supervisor Assessment</u> for assessing the outcomes of improvement projects.

Step 5. Conclude the activity

- Link to Process Mapping and Using the Checklist for Laboratory Improvement activities.
- Highlight or reiterate the key messages below.
- Make sure participants achieved objectives of the activity.

KEY MESSAGES

- Site visits can serve several purposes.
- Designing an assessment based on the purpose of the site visit allows for efficiency, documentation, and standardization of these visits.
- Site visits are crucial to assure the successful transfer of knowledge, skills, and practices from the workshop to the laboratory.

Can they:

- State the purpose of site visits and the benefits of using a standardized format for laboratory improvement through the SLMTA program?
- Design an appropriate format for site visit assessment?
- Defend the essential nature of site visits?

✓ ACTIVITY OBJECTIVES MET?

ightarrow ightarrow Connections and Applications

- The importance of site visits to laboratory improvement cannot be overemphasized.
- Site visits are crucial to the success of the SLMTA program leading toward accreditation. Implementation with accountability is a key tenant of this program.

10 min

5 min

Tool: Defining Questions for Assessment Development

I. Assessing Training:

- □ Is the implementation of the Improvement Projects (IPs) progressing satisfactorily? Are there any misconceptions or commonly encountered issues?
- □ Is the training effective? What was the level of adoption of the new tools presented? If the new tools were not adopted, why not?
- □ Is the training meeting the participants' needs? If not, what can be done to modify or customize the curriculum to address these needs?

II. Evaluating Improvement projects:

- Have the assigned improvement projects been started?
- In yes, how are the projects progressing? Are there any issues that are causing difficulties? Does the laboratorian understand the improvement model? Are there adjustments or corrections that need to be made in the process?
- If no, why not? Are there obstacles that need addressing? Is there adequate support from administration? Are there additional resources that are needed? Does the laboratorian understand the improvement model? Is additional training needed?
- □ If the projects are in progress, are they on course for completion according to the time frame?
- If the projects are completed, verify the results. Was actual data collected? Are the results measurable? Can the results be verified by photography?

III. Supportive Supervision:

- Are there positive behaviors, changes, practices that need reinforcement?
- Are there issues where the laboratorian needs guidance and coaching for resolution?
- Are there instances where the laboratorian needs to observe and experience managerial tasks performed by a competent supervisor?
- What priority issues are identified that need to be assessed on the next visit?
- □ Is there objective data, including photographs, audit checklists, etc. included with the report for ongoing monitoring?

Worksheet: Site Visit Assessment

Supervisor / Assessor: Please use this form to evaluate the assigned laboratory. Base your assessment on what you actually observed at the laboratory, in addition to information gleaned from the interview. Include objective data when available including photographs. Attach relevant checklist for ongoing monitoring purposes.

LABORATORY:	NAME:
ASSESSOR:	DATE:
1.	
2	
2 .	
3.	
4.	
-	
5.	

Job Aid 1: Training Follow-up and Assessment

Supervisor / Assessor: Please use this form to evaluate the assigned laboratory. Base your assessment on what you actually observed at the laboratory, in addition to information gleaned from the interview. Include objective data when available including photographs. Attach relevant checklist for ongoing monitoring purposes.

LABORATORY:	NAME:	
ASSESSOR:	DATE:	
4 le the implementation of t	ha lunnau amant Duainata (IDa)	
Are there any misconception	ns or commonly encountered	issues?
2. Is the training effective? (may or may not be related to	What was the level of adoption the improvement projects) pres	n or uptake of the new tools ented?
(Rate this on a scale of 0 to 5, wit	h 0 = No Uptake and 5 = Complete	Uptake.)
If the new tools were not add	opted, why not?	Г
Tool 1	Tool 2	Tool 3
(e.g. Duty Roster)	(e.g. Staff Meetings)	(e.g. Equipment Maintenance Monitoring)
2 Are the job side worksho	ate ate presented at the train	ing being utilized in the
laboratory?	ets, etc, presented at the train	ing being utilized in the
4. Is the training meeting the	participants' needs? If not, v	what can be done to modify or
customize the curriculum to	address these needs?	
customize the curriculum to	address these needs?	

Job Aid 2: Supervisory Assessment

Supervisor / Assessor: Please use this form to evaluate the assigned laboratory. Base your assessment on what you actually observed at the laboratory, in addition to information gleaned from the interview. Include objective data when available including photographs. Attach relevant checklist for ongoing monitoring purposes.

LABORATORY:	NAME:
ASSESSOR:	DATE:

1. Are there positive behaviors, changes, practices that need reinforcement?
2. Are there issues where the laboratorian needs guidance and coaching for resolution?
3. Are there instances where the laboratorian needs to observe & experience (mentoring) managerial tasks performed by a competent supervisor?
4. What issues are identified that need to be followed up on the next visit? Include reference to specific checklist items or note checklist scoring for comparison. Attach relevant checklist.

Job Aid 3: Improvement Project Supervisor Assessment

Supervisor / Assessor: Please use this form to evaluate the assigned improvement projects. Base your assessment on what you actually observed at the laboratory, in addition to information gleaned from the interview. Please indicate what objective measurement was used to quantify or qualify the improvement.

LABORATORY:

NAME: _____

ASSESSOR:

DATE:

Project 1	Project 2	Project 3		
1. What was attempted? What was the scope of the project?				
2. What results or outcomes	were achieved?			
(Rate this on a scale of 0 to 5,	with 0=No Results and 5=Excellent	Results.)		
2. What objective metric or data was used to measure the improvement?				
4. If the project did not work	out, what were the barriers to	success?		
5. Indicate how participants dealt with challenges. Note any creative or ingenious ways used to deal with challenges. What were the most important <u>lessons learned</u> ?				