

## Tuberculosis Drug and Susceptibility Testing Training

(Mycobacteria Tuberculosis Drug Susceptibility Testing (LJ DST) - phenotypic Solid Method)

### PROPOSED SCHEDULE

Time	Session	Facilitator
<b>DAY 1</b>		
9:00-9:45	Welcome/opening remarks/ introduction to course presentation	
9:45-10:30	Pre-test	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Module 1: General epidemiology of Tuberculosis (T)	
11:45-12:30	Module 2: WHO Recommended Diagnostic Algorithms (T)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Module 3: Biosafety in a DST laboratory (T)	
14:15-15:00	Module 4: Principles of Drug resistance to anti TB drugs (T)	
15:00-15:45	<b>BREAK</b>	
15:45-16:30	Module 5: Quality Assurance in a DST lab (T)	
16:30-17:00	Daily Evaluation	
<b>DAY 2</b>		
9:00-9:45	<b>Recap</b>	
9:45-10:30	Module 6-Preparation of LJ DST Drug stock solutions(T)	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Module 6- Preparation of LJ DST Drug stock solutions(P)	
11:45-12:30	Module 6- Preparation of LJ DST Drug stock solutions(P)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Module 7: Preparation of LJ DST Drug containing Media (T)	
14:15-15:00	Preparation of Mineral salts for LJ DST media and malachite green (P)	

15:00-15:45	<b>BREAK</b>	
15:45-16:30	Preparation of Mac Farland standard (P)	
16:30-17:00	Daily Evaluation	
<b>DAY 3</b>		
9:00-9:45	Recap	
9:45-10:30	Preparation of LJ DST drug containing media ( First and Second Line drugs (P)	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Preparation of LJ DST drug containing media ( First and Second Line drugs (P)	
11:45-12:30	Preparation of LJ DST drug containing media ( First and Second Line drugs (P)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Preparation of LJ DST drug containing media	
14:15-15:00	( First and Second Line drugs (P)	
15:00-15:45	<b>BREAK</b>	
15:45-16:30	Preparation of LJ DST drug containing media ( First and Second Line drugs (P)	
16:30-17:00	Daily Evaluation	
<b>DAY 4</b>		
9:00-9:45	Recap	
9:45-10:30	Sorting of prepared media and Sterility Checks (P)	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Module 8: Isolate requirements for LJ DST (T)	
11:45-12:30	Module 9: LJ DST setting (T)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Quality control for prepared LJ DST media (P)	
14:15-15:00	Quality control for prepared LJ DST media (P)	
15:00-15:45	<b>BREAK</b>	
15:00-15:45	Quality control for prepared LJ DST media (P)	
16:30-17:00	Daily Evaluation	
<b>DAY 5</b>		
9:00-9:45	Recap	
9:45-10:30	Module 10: Principles of MTB Isolate Storage (T)	
10:30-11:00	<b>BREAK</b>	

11:00-11:45	Practicing LJ DST Setting of LJ isolates (P)	
11:45-12:30	Practicing LJ DST Setting of LJ isolates (P)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Practicing LJ DST Setting of LJ isolates (P)	
14:15-15:00	Practicing LJ DST Setting of LJ isolates (P)	
15:00-15:45	<b>BREAK</b>	
15:00-15:45	Practicing LJ DST Setting of LJ isolates (P)	
16:30-17:00	Daily Evaluation	
	<b>DAY 6</b>	
9:00-9:45	Recap	
9:45-10:30	Module 11: Interpretation and reporting of LJ DST results (T)	
10:30-11:00	<b>Break</b>	
11:00-11:45	Interpretation and reporting of LJ DST results (P)	
11:45-12:30	Interpretation and reporting of LJ DST results (P)	
12:30-13:30	<b>Lunch</b>	
13:30-14:15	Interpretation and reporting of LJ DST results (P)	
14:15-15:00	Interpretation and reporting of LJ DST results (P)	
15:00-15:45	<b>Break</b>	
15:45-16:30	Interpretation and reporting of LJ DST results (P)	
16:30-17:00	Daily Evaluation	
	<b>DAY 7</b>	
9:00-9:45	Recap	
9:45-10:30	Practicing LJ DST Setting (P)	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Practicing LJ DST Setting (P)	
11:45-12:30	Practicing LJ DST Setting (P)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Practicing LJ DST Setting (P)	
14:15-15:00	Practicing LJ DST Setting (P)	
15:00-15:45	<b>Break</b>	
15:00-15:45	Practicing LJ DST Setting (P)	
15:45-16:30	Practicing LJ DST Setting (P)	
16:30-17:00	Daily Evaluation	
	<b>Day 8</b>	
9:00-9:45	Recap	
9:45-10:30	Module 12: Troubleshooting of LJ DST results (T)	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Troubleshooting of LJ DST results (P)	
11:45-12:30	Troubleshooting of LJ DST results (P)	
12:30-13:30	<b>LUNCH</b>	
13:30-14:15	Troubleshooting of LJ DST results (P)	
14:15-15:00	Troubleshooting of LJ DST results (P)	

15:00-15:45	<b>BREAK</b>	
15:00-15:45	Troubleshooting of LJ DST results (P)	
16:30-17:00	Daily Evaluation	
	<b>Day 9</b>	
9:00-9:45	Recap	
9:45-10:30	Principles of MTB Isolate Storage (P)	
10:30-11:00	<b>Break</b>	
11:00-11:45	Principles of MTB Isolate Storage (P)	
11:45-12:30	Principles of MTB Isolate Storage (P)	
12:30-13:30	Management of MDR TB profiles (T)	
13:30-14:15	<b>LUNCH</b>	
14:15-15:00	Management of MDR TB profiles (D)	
15:00-15:45	Management of MDR TB profiles (D)	
15:00-15:45	Course Conclusion Discussion	
16:30-17:00	Daily Evaluation	
	<b>Day 10</b>	
9:00-9:45	Post-test	
9:45-10:30	Action plan discussion	
10:30-11:00	<b>BREAK</b>	
11:00-11:45	Awarding Certificate	
11:45-12:30	Course Evaluation	
12:30-13:30	Training closure and Group Photo	
13:30-14:15	<b>LUNCH</b>	

#### Descriptions

T-theory sessions, LJ DST-Lowenstein Jensen drug susceptibility testing, P- practical sessions, D- discussions, E- exercises

Approved by:

Technical supervisor..... Date.....