



## **Procedural Steps for Identifying and Prioritizing Essential Functions**

## Step 1: Identifying Essential Functions - Categorization

To identify the essential functions, it is initially helpful to group all of the laboratory's analytical and support functions into overarching categories. Depending on the particular laboratory's operation, these broad categories may include (but are not limited to) the following:

- Biological or Chemical Threat/Terrorism
- Infectious Disease
- Environmental Health
- Newborn Screening
- Food Safety
- Laboratory Support

Identification of Essential and Nonessential Laboratory Functions					
Overarching Category	Kind of Agent	Pathogenic Condition	Specific Test or Method	Essential (E) or Nonessenti al (NE)	Priority
Infectious Disease					
Biological or					
Chemical					
Threat/Terrorism					
Infectious Disease					
Environmental					
Health					
Newborn					
Screening					
Food Safety					
Laboratory Support					

#### Step 2: Identify Essential Functions – Subdivision of Categories

The next step in identifying core laboratory activities is to create subdivisions within the overarching categories. These subdivisions are used to group the laboratory's functions into those that are essential, and therefore must be continued, and those that are nonessential, which may be suspended. The nature of these subdivisions, or whether they are even necessary, depends upon the particular overarching category. For example, if all of the laboratory activities in the newborn screening category are considered essential, then subdividing this overarching category into smaller units to reveal essential and nonessential activities is unnecessary. The same may be true for an overarching category like environmental health. If all the routine testing of environmental samples is essential but readily outsourced to laboratories with comparable analytical capabilities and capacities in the private sector, then subdivision of this broad category may be helpful only to determine which alternate laboratory to use for particular kinds of analytical methods. In contrast, within a broad overarching category such as infectious disease, there may be both essential and nonessential activities that need to be identified. For example, while activities related to the subtyping of microbial isolates for early detection of infectious disease outbreaks may be essential to public health, some of the routine reference testing done in the public health laboratory may be nonessential. By effectively subdividing an overarching category like infectious disease, the process of differentiating between essential and nonessential activities becomes more manageable.

Identification of Essential and Nonessential Laboratory Functions					
Overarching Category	Kind of Agent	Pathogenic Condition	Specific Test or Method	Essential (E) or Nonessenti al (NE)	Priority
	Bacterial				
	Viral				
	Fungus				
	Parasitology				
Infectious Disease	Environmental				
	Samples				
	Weapons of				
	Mass Destruction				
Biological or					
Chemical					
Threat/Terrorism					
Infectious Disease					
Environmental					
Health					
Newborn					
Screening					
Food Safety					
Laboratory Support					

#### **Identify and Prioritize Essential Functions**

The overarching category of infectious disease can be examined as a model to identify and prioritize the essential functions of the laboratory. While other approaches or variations of this approach can be used, the outcome should be the same. The laboratory's essential functions should become clearly identified and appropriately prioritized to guide COOP action.

For the purpose of this course, we will further breakdown the infectious disease category into various subdivisions. However, this procedure should be completed for all categories, as applicable, using subdivisions that apply to that category. The subdivisions may include the kind of microbial agent, the type of analytical tests or the nature of the laboratory program, i.e., enteric diseases, sexually transmitted diseases or invasive diseases. Other subdivisions may also be used. For this table, we will be subdividing the infectious disease agents using the following guide:

- First, divide each kind of agent into specific pathogenic conditions;
- Second, divide each condition into specific tests or general methods;
- Third, evaluate the activities listed to identify essential and nonessential; and
- Fourth, prioritize each essential function

## Step 3: Divide Kind of Agent into Pathogenic Condition

In this step, you will want to divide the kind of agents you work with into specific pathogenic conditions.

Identifica	tion of Essentia	and Noness	ential Laborato	ory Function	s
Overarching Category	Kind of Agent	Pathogenic Condition	Specific Test or Method	Essential (E) or Nonessenti al (NE)	Priority
	Bacterial	Tuberculosis Enteric Diseases Sexually Transmitted Disease			
	Viral	Influenza Encephalitis Rabies			
Infectious Disease	Fungus				
	Parasitology				
	Environmental Samples	Drinking water and regulatory/ non regulatory Special project			
	Weapons of Mass Destruction				
Biological or Chemical Threat/Terrorism					
Infectious Disease					
Environmental Health					
Newborn Screening					
Food Safety					
Laboratory Support					

## Step 4: Divide Pathogenic Condition into Specific Tests or Methods

In this step, you will want to divide the pathogenic conditions you work with into specific test or methods you use.

Identifica	tion of Essentia	l and Noness	ential Laborat	orv Function	s
Overarching Category	Kind of Agent	Pathogenic Condition	Specific Test or Method	Essential (E) or Nonessentia I (NE)	Priority
	Bacterial	Tuberculosis	Drug sensitivity testing Diagnosis Gen-Probe Biochemicals HPLC Confirmation		
		Enteric Diseases	Diagnosis Outbreak detection		
Infectious Disease		Sexually Transmitted Disease	HIV diagnosis HIV molecular subtyping Syphilis confirmation		
	Viral	Influenza	Routine diagnosis Subtype surveillance H5N1 identification		
		Encephalitis Rabies	West Nile Herpes All Activities		
	Fungus	Rables	All Activities		
	Parasitology		All Activities		
	Environmental Samples	Drinking water and regulatory/ non regulatory Special project	All Activities		
	Weapons of Mass Destruction		LRN assays		
Biological or Chemical Threat/Terrorism					
Infectious Disease Environmental Health					
Newborn Screening					
Food Safety					
Laboratory Support					

#### Step 5: Essential and Non-Essential

Some things to consider when identifying essential functions are:

- 1. Laboratories should review their functions to determine those directed by applicable laws, directives, and executive orders.
- 2. Laboratories should determine the essential functions that need to be continued uninterrupted or resumed within 12 hours, regardless of circumstance.
- 3. Laboratories should identify those essential functions that provide interdependent support to an essential function performed by another organization, including when and where the vital support would be provided.

Identifica	tion of Essentia	and Noness	ential Laborat	orv Function	s
				Essential (E)	
Overarching		Pathogenic	Specific Test	or	Priority
Category	Kind of Agent	Condition	or Method	Nonessentia	Phoney
				I (NE)	
			Drug sensitivity	Е	
			testing		
			Diagnosis	E	
		Tuberculosis	Gen-Probe	E	
			Biochemicals	NE	
			HPLC	NE	
			Confirmation	E	
	Bacterial	Enteric	Diagnosis	NE	
		Diseases	Outbreak		
		Diseases	detection	E	
			HIV diagnosis	NE	
		Sexually	HIV molecular		
		Transmitted	subtyping	E	
		Disease	Syphilis	E	
			confirmation	E	
	Viral	Influenza	Routine	NE	
Infectious Disease			diagnosis	INC.	
Infectious Disease			Subtype	E	
			surveillance		
			H5N1	Е	
			identification	NE	
		Encephalitis	West Nile	NE	
		Rabies	Herpes	NE E	
	E	Rables	All Activities All Activities	NE	
	Fungus		All Activities	NE	
	Parasitology		All Activities		
		Drinking water	All Activities		
		and regulatory/			
	Samples	non regulatory/		E	
	oumpico	Special project			
		openii project			
	101		LRN assays	Е	
	Weapons of Mass Destruction				
	wass Destruction				
Biological or					
Chemical					
Threat/Terrorism					
Infectious Disease					
Environmental Health					
Newborn Screening					
Food Safety					
Laboratory Support					

### **Step 6: Prioritize Essential Functions**

Once the laboratory's essential functions have been identified, they must be prioritized. Depending on the nature of the incident causing a disruption of the affected laboratory's operation, it is possible that only some of the essential functions can be continued. It is therefore critical to know which have the highest priority. This prioritization should be based on time sensitivity and the public health impact if the function is NOT continued during the disruptive event. Each essential laboratory function should be rated as follows:

- Priority 1 Highest priority
   If the task, service or function is mission priority critical—life, health or safety issue if not restored within one hour.

  Recovery/restoration objective: <u>0 to 12 hours</u>, normally performed on a 24/7 basis
- Priority 2 Medium priority
   If the task, service or function is mission priority urgent —will cause definite, irreparable harm if not
   restored in less than 24 hours.

  Recovery/restoration objective: 12 hour to 48 hours—normally performed on a 24/7 basis
- Priority 3 Medium priority

If the task, service or function is a **business unit priority** — will cause definite irreparable harm if not restored in less than one week.

# Recovery/restoration objective: <u>two to seven days</u> —a function that is routinely monitored on a daily basis

Priority 4 –Lower priority
 If the task, service or function is important — significant, but not time critical—normal day-to-day
 functions that would NOT cause irreparable harm if not restored within the first 30 days.

 Recovery/restoration objective: from <u>1 week plus</u>

# **CDC DIVISION OF LABORATORY SYSTEMS**

Identifica	tion of Essentia	l and Noness	ential Laborat	ory Function	S
				Essential (E)	
Overarching Category	Kind of Agent	Pathogenic	Specific Test	or	Priority
	Kind of Agent	Condition	or Method	Nonessentia	FIIOTILY
				I (NE)	
			Drug sensitivity	Е	1
			testing		
		Tuberculosis	Diagnosis	E	1
			Gen-Probe	E	2
			Biochemicals HPLC	NE NE	4
			Confirmation	E	4
			Confirmation	E	1
	Bacterial	Enteric	Diagnosis	NE	4
		Diseases	Outbreak	Е	2
			detection		
			HIV diagnosis	NE	4
		Sexually	HIV molecular	E	2
		Transmitted	subtyping		
		Disease	Syphilis	E	2
			confirmation		
		Influenza	Routine	NE	4
Infectious Disease			diagnosis Subtype		
	Viral		surveillance	E	2
			H5N1		
			identification	E	1
		Encephalitis	West Nile	NE	4
			Herpes	NE	4
		Rabies	All Activities	E	2
	Fungus		All Activities	NE	4
	Parasitology		All Activities	NE	4
	Environmental Samples	Drinking water and regulatory/ non regulatory Special project	All Activities	E	2
	Weapons of Mass Destruction		LRN assays	E	1
Biological or					
Chemical					
Threat/Terrorism Infectious Disease					
Environmental					
Health					
Newborn Screening					
Food Safety					
Laboratory Support					

This job aid is a component of the free, on-demand CDC training course "Laboratory Continuity of Operations." Find the course at <u>https://www.cdc.gov/labtraining</u>.