

2024 Training Needs Assessment: Public Health Preparedness and Response

[Survey Instructions](#)[Email Support](#)

Guide

Please take about 10 minutes to complete this training needs assessment to identify the most urgent and essential needs for your laboratory staff. The survey should be completed by managers, supervisors and directors on behalf of your laboratory's Preparedness and Response program. Multiple responses are expected by your laboratory. The goal is to use the findings from this survey to prioritize the development of new training and other educational resources.

All responses are anonymous. For reference, a printable PDF copy of the survey questions can be accessed [here](#).

Question 3 and 4

1. Select the four (4) most urgent and essential training topics to support your Public Health Preparedness and Response program. (Select up to four)

- ☐ Application of Clinical Laboratory Improvement Amendments (CLIA) Regulations
- ☐ Bioinformatics Analysis
- ☐ Continuity of Operations Planning and Activation
- ☐ Coordination with Sentinel Laboratories and Other Partners (e.g., Federal Bureau of Investigation (FBI) Weapons of Mass Destruction (WMD) Coordinators)
- ☐ Designing Exercises and Drills
- ☐ Electronic Laboratory Reporting (ELR)

- ☐ Federal Select Agent Program (FSAP)
- ☐ General Biosafety and Biosecurity
- ☐ Inactivation Protocols
- ☐ Hands-on Instrumentation (e.g. PCR)
- ☐ Laboratory Accreditation (e.g., International Organization for Standardization (ISO), College of American Pathologists (CAP))
- ☐ Laboratory Incident Command Structure (ICS)
- ☐ LRN-B Conventional Methods
- ☐ Method Verification and Validation
- ☐ Packaging and Shipping for Category A & B Specimens
- ☐ Regulatory (i.e., compiling and submitting data to the US Food and Drug Administration)
- ☐ Risk Assessments
- ☐ Supply Chain Management
- ☐ Surge Capacity Planning
- ☐ Waste Management
- ☐ Whole Genome Sequencing
- ☐ Other: please describe additional training topics
- ☐ None

~~1. Select the four (4) most urgent and essential training topics to support your Public Health Preparedness and Response testing.~~

- ☒ ~~Application of Clinical Laboratory Improvement Amendments (CLIA) Regulations~~
- ☒ ~~Bioinformatics Analysis~~
- ☒ ~~Continuity of Operations Planning and Activation~~
- ☒ ~~Coordination with Sentinel Laboratories and Other Partners (e.g., Federal Bureau of Investigation (FBI) Weapons of Mass Destruction (WMD) Coordinators)~~
- ☒ ~~Designing Exercises and Drills~~
- ☒ ~~Electronic Laboratory Reporting (ELR)~~
- ☒ ~~Federal Select Agent Program (FSAP)~~

- ☐ General Biosafety and Biosecurity
- ☐ Inactivation Protocols
- ☐ Hands-on Instrumentation (e.g. PCR)
- ☐ Laboratory Accreditation (e.g., International Organization for Standardization (ISO), College of American Pathologists (CAP))
- ☐ Laboratory Incident Command Structure (ICS)
- ☐ LRN B Conventional Methods
- ☐ Method Verification and Validation
- ☐ Packaging and Shipping for Category A & B Specimens
- ☐ Regulatory (i.e., compiling and submitting data to the US Food and Drug Administration)
- ☐ Risk Assessments
- ☐ Supply Chain Management
- ☐ Surge Capacity Planning
- ☐ Waste Management
- ☐ Whole Genome Sequencing
- ☐ Other:

1a. For each of the four topic(s) you selected, complete the following information:
(Click "Save and Continue" to go to the selected training topics)

Topic: Application of Clinical Laboratory Improvement Amendments (CLIA) Regulations

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

- ☐ Virtual session (including field experiences, question and answer, and recording for future access)
- ☐ Online e-learning course
- ☐ In-person workshop
- ☐ In-person seminars
- ☐ In-person conference sessions (suggest a conference)
- ☐ Other: please specify

b. Supporting materials: (Select all that apply)

- ☐ Tools and templates
- ☐ Guidance documents
- ☐ Case studies
- ☐ Other: please specify

Topic: Bioinformatics Analysis

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

- ☐ Training resources are available but insufficient to meet our needs (Please explain)
- ☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

- ☐ Virtual session (including field experiences, question and answer, and recording for future access)
- ☐ Online e-learning course
- ☐ In-person workshop
- ☐ In-person seminars
- ☐ In-person conference sessions (suggest a conference)
- ☐ Other: please specify

b. Supporting materials: (Select all that apply)

- ☐ Tools and templates
- ☐ Guidance documents
- ☐ Case studies
- ☐ Other: please specify

Topic: Continuity of Operations Planning and Activation

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

- ☐ Training resources are available but insufficient to meet our needs (Please explain)
- ☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

- ☐ Virtual session (including field experiences, question and answer, and recording for future access)
- ☐ Online e-learning course
- ☐ In-person workshop
- ☐ In-person seminars
- ☐ In-person conference sessions (suggest a conference)
- ☐ Other: please specify

b. Supporting materials: (Select all that apply)

- ☐ Tools and templates
- ☐ Guidance documents
- ☐ Case studies
- ☐ Other: please specify

Topic: Coordination with Sentinel Laboratories and Other Partners (e.g., Federal Bureau of Investigation (FBI) Weapons of Mass Destruction (WMD) Coordinators)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

- ☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Designing Exercises and Drills

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Electronic Laboratory Reporting (ELR)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Federal Select Agent Program (FSAP)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: General Biosafety and Biosecurity

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Inactivation Protocols

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Hands-on Instrumentation (e.g. PCR)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Laboratory Accreditation (e.g., International Organization for Standardization (ISO), College of American Pathologists (CAP))

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Laboratory Incident Command Structure (ICS)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: LRN-B Conventional Methods

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Method Verification and Validation

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

- ☐ Training resources are available but insufficient to meet our needs (Please explain)
- ☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

- ☐ Virtual session (including field experiences, question and answer, and recording for future access)
- ☐ Online e-learning course
- ☐ In-person workshop
- ☐ In-person seminars
- ☐ In-person conference sessions (suggest a conference)
- ☐ Other: please specify

b. Supporting materials: (Select all that apply)

- ☐ Tools and templates
- ☐ Guidance documents
- ☐ Case studies
- ☐ Other: please specify

Topic: Packaging and Shipping for Category A & B Specimens

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

- ☐ Training resources are available but insufficient to meet our needs (Please explain)
- ☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

- ☐ Virtual session (including field experiences, question and answer, and recording for future access)
- ☐ Online e-learning course
- ☐ In-person workshop
- ☐ In-person seminars
- ☐ In-person conference sessions (suggest a conference)
- ☐ Other: please specify

b. Supporting materials: (Select all that apply)

- ☐ Tools and templates
- ☐ Guidance documents
- ☐ Case studies
- ☐ Other: please specify

Topic: Regulatory (i.e., compiling and submitting data to the US Food and Drug Administration)

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Risk Assessments

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Supply Chain Management

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Surge Capacity Planning

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Waste Management

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Whole Genome Sequencing

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

Topic: Other: \${q://QID3/ChoiceTextEntryValue/23}

i. Describe in detail what aspects to be included in the training resources.

ii. What best describes the training resources currently available to your laboratory for this topic? (Select one)

☐ Training resources are available but insufficient to meet our needs (Please explain)

☐ Training resources are not available

iii. Select the training resource preferences for your laboratory on this topic.

a. Delivery of training: (Select all that apply)

☐ Virtual session (including field experiences, question and answer, and recording for future access)

☐ Online e-learning course

☐ In-person workshop

☐ In-person seminars

☐ In-person conference sessions (suggest a conference)

☐ Other: please specify

b. Supporting materials: (Select all that apply)

☐ Tools and templates

☐ Guidance documents

☐ Case studies

☐ Other: please specify

2. Do you or your laboratory have resources, best practices or lessons learned for ANY of the topics listed in Question #1?

☐ Yes

☐ No

2a. If yes, would you be willing to share that with APHL and their communities of practice?

	Full Name: First, Last	Title	Email Address	Phone: xxx-xxx-xxxx
» Application of Clinical Laboratory Improvement Amendments (CLIA) Regulations				
» Bioinformatics Analysis				
» Continuity of Operations Planning and Activation				
» Coordination with Sentinel Laboratories and Other Partners (e.g., Federal Bureau of Investigation (FBI) Weapons of Mass Destruction (WMD) Coordinators)				
» Designing Exercises and Drills				
» Electronic Laboratory Reporting (ELR)				
» Federal Select Agent Program (FSAP)				
» General Biosafety and Biosecurity				
» Inactivation Protocols				

	Full Name: First, Last	Title	Email Address	Phone: xxx-xxx-xxxx
» Hands-on Instrumentation (e.g. PCR)				
» Laboratory Accreditation (e.g., International Organization for Standardization (ISO), College of American Pathologists (CAP))				
» Laboratory Incident Command Structure (ICS)				
» LRN-B Conventional Methods				
» Method Verification and Validation				
» Packaging and Shipping for Category A & B Specimens				
» Regulatory (i.e., compiling and submitting data to the US Food and Drug Administration)				
» Risk Assessments				
» Supply Chain Management				
» Surge Capacity Planning				
» Waste Management				

	Full Name: First, Last	Title	Email Address	Phone: xxx-xxx-xxxx
» Whole Genome Sequencing				
» Other:				

Question 5

3. What other information would you like to share with APHL to support your training needs?