

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

May 6–9, 2024
Milwaukee, WI
APHLTM 2024
where laboratory science and public health meet

Preconference Workshop, APHL 2024

Part 1: May 5, 2024 • 9:00 am – 5:00 pm CDT

Part 2: May 6, 2024 • 8:00 am – 11:30 am CDT

Baird Center • Milwaukee, WI

Course Number: **588-846-24**

Registration fee: **\$449 per person**

Register at: **www.aphl.org/AC**

Registration closes April 26, 2024

DESCRIPTION

This interactive workshop will help participants improve biosafety and biosecurity, including Biosafety Level 3 (BSL-3), through efficient facility design, maintenance and risk assessment practices. Attendees will participate in interactive sessions to illustrate best practices concepts found in the **Laboratory Facility Construction and Major Renovation Guidelines**. Discussions and hands-on interaction will cover parts 1–10 of the Guidelines. *Participants are required to bring their own laptop in order to optimize participation during interactive sessions; internet will be available in the workshop room. A more detailed agenda will be provided to participants.*

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Explain the use and applications of the APHL *Laboratory Facility Construction and Major Renovation Guidelines*
- Describe how to perform a thorough laboratory assessment to determine issues, needs, deficiencies or problems that need to be addressed
- Describe how to assemble and synthesize pre-design information appropriate to the development of a laboratory facility, including risk assessment
- Describe the BSL-3 renovation and construction design principles
- Review the overall steps required for renovation or new laboratory construction projects using the Laboratory Design Checklist

AUDIENCE

This awareness-level workshop series is designed for biosafety professionals, facility operations and maintenance personnel, laboratory management and technical personnel.

MODERATOR

Maria Landron, DrPH • Lead Specialist, Global Health, APHL

SPEAKERS

Warren J. Hendrickson, AIA LEED AP, BD+C • Public Health Director, HDR

Michael Mottet, LEED AP • Principal Laboratory Planner, HDR

Victor Waddell, PhD • Laboratory Director, Arizona State Public Health Laboratory

PROPOSED AGENDA

Part 1 / Day 1

9:00–9:20 am	Welcome and Workshop Overview <i>(light breakfast, e.g., coffee and specialty pastries, will be provided)</i>
9:20–10:30 am	Guidelines 1–3: The Big Picture: Vision and Mission, Program Planning and Project Team
10:30–10:45 am	Break
10:45 am – 12:00 pm	Guideline 4: Principles of Laboratory Design
12:00–1:00 pm	Lunch <i>(boxed lunch and beverages will be provided; networking is encouraged)</i>
1:00–2:00 pm	Guideline 5: Advancing Concept Development
2:00–3:30 pm	Special Topic and Interactive Activity: Risk Assessment
3:30–3:45 pm	Break <i>(brownies, cookies and coffee will be provided)</i>
3:45–4:30 pm	Special Topic and Interactive Activity: Risk Assessment <i>(continued)</i>
4:30–5:00 pm	Guideline 6: Buy-In

Part 2 / Day 2

8:00–9:45 am	Guidelines 7–10: In-country Design and Contractor Selection, Documents for Construction, Construction and Oversight, and Operations and Maintenance <i>(light breakfast, e.g., coffee and specialty pastries, will be provided)</i>
9:45–10:00 am	Break
10:00–11:00 am	Special Topic: BSL-3 Renovation and Construction Design Principles
11:00–11:30 am	Next Steps, Survey and Adjourn

COMPETENCIES ACHIEVED

Completion of this workshop will result in learning gained by the participant in the Quality Management System (QMS) and Management and Leadership (MLD) domains:

- QMS 3.02. Facilities. Beginner - Describes the laboratory design, escape routes and workplace accommodations; Competent - Monitors environmental controls for good laboratory practice and testing capabilities.
- QMS 3.04. Emergency management and response. Beginner - Explains own role in emergency event mitigation, preparedness, response and recovery.
- MLD 5.09. Systems thinking. Beginner - Describes systems thinking; Competent - Applies systems thinking when approaching projects and problem solving.
- MLD 5.10. Strategic thinking. Beginner - Describes strategic thinking; Competent - Provides input into strategic thinking and decision making processes.

MMWR Competency Guidelines for Public Health Laboratory Professionals

CONTINUING EDUCATION CREDIT

The Association of Public Health Laboratories (APHL) is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. Participants may claim 9.0 contact hours of P.A.C.E.® credit after attending this workshop.

APHL is an approved provider of Certified in Public Health (CPH) Recertification Credits through the National Board of Public Health Examiners (NBPHE). Attendees have the opportunity to earn up to 9.0 hours of credit by attending the entire workshop. APHL will not issue certificates of attendance.

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