

2018 TRAINING NEEDS ASSESSMENT

SUMMARY FOR ENVIRONMENTAL HEALTH PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Environmental Health program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
4	Scientific/Technical	Bioinformatics - Basics
5	Scientific/Technical	Information Systems - Electronic data exchange
6	Scientific/Technical	Information Systems - Laboratory informatics
7	Scientific/Technical	Bioinformatics - Application in clinical laboratory
8	Scientific/Technical	Information Systems - Data analysis
9	Scientific/Technical	Information Systems - Digital tools
10	Scientific/Technical	Environmental - Instrument training

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
5	Scientific/Technical	Information Systems - Laboratory informatics
6	Scientific/Technical	Bioinformatics - Application in clinical laboratory
7	Scientific/Technical	Information Systems - Electronic data exchange
8	Scientific/Technical	Information Systems - Laboratory automation
9	Scientific/Technical	Emergency Preparedness - MALDI-TOF
10	Scientific/Technical	Emergency Preparedness - Rule-in/Rule-out

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
3	Scientific/Technical	Bioinformatics - Data analysis
4	Scientific/Technical	Emergency Preparedness - Sentinel bioterrorism
5	Scientific/Technical	Information Systems - Laboratory informatics
6	Scientific/Technical	Bioinformatics - Basics
7	Scientific/Technical	Information Systems - Electronic data exchange
8	Scientific/Technical	Emergency Preparedness - Chemical threat agents
9	Scientific/Technical	Emergency Preparedness - Rule-in/Rule-out
10	Scientific/Technical	Information Systems - Data analysis

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Association of Public Health Laboratories

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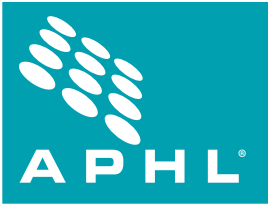
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2018 TRAINING NEEDS ASSESSMENT

SUMMARY FOR FOOD SAFETY PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Food Safety program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
3	Technology	Molecular Diagnostics Instruments - Sequencing (NGS, WGS)
4	Leadership	Epidemiology for laboratory professionals
5	Scientific/Technical	Bioinformatics - Data analysis
6	Scientific/Technical	Bioinformatics - Basics
7	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
8	Technology	Molecular Diagnostics Instruments - PCR/Real-time PCR
9	Scientific/Technical	Information Systems - Electronic data exchange
10	Scientific/Technical	Information Systems - Laboratory informatics

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Technology	Molecular Diagnostics Instruments - Sequencing (NGS, WGS)
3	Scientific/Technical	Bioinformatics - Data analysis
4	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
5	Scientific/Technical	Bioinformatics - Basics
6	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
7	Technology	Molecular Diagnostics - PCR/Real-time PCR
8	Leadership	Epidemiology for laboratory professionals
9	Scientific/Technical	Epidemiology - Epidemiology for laboratory professionals
10	Scientific/Technical	Information Systems - Laboratory informatics

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Technology	Molecular Diagnostics Instruments - Sequencing (NGS, WGS)
2	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
3	Scientific/Technical	Bioinformatics - Application in public health laboratory
4	Leadership	Epidemiology for laboratory professionals
5	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
6	Technology	Molecular Diagnostics Instruments - PCR/Real-time PCR
7	Scientific/Technical	Bioinformatics - Data analysis
8	Scientific/Technical	Epidemiology - Epidemiology for laboratory professionals
9	Scientific/Technical	Information Systems - Laboratory informatics
10	Scientific/Technical	Bioinformatics - Basics

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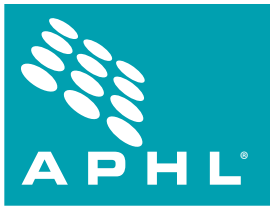
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2018 TRAINING NEEDS ASSESSMENT SUMMARY FOR INFECTIOUS DISEASES PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Infectious Diseases program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
3	Technology	Molecular Diagnostics - Sequencing (NGS, WGS)
4	Leadership	Epidemiology for laboratory professionals
5	Scientific/Technical	Bioinformatics - Data analysis
6	Scientific/Technical	Bioinformatics - Basics
7	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
8	Technology	Molecular Diagnostics - PCR/Real-time PCR
9	Scientific/Technical	Information Systems - Electronic data exchange
10	Scientific/Technical	Microbiology - Emerging infectious diseases

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Technology	Molecular Diagnostics - Sequencing (NGS, WGS)
3	Scientific/Technical	Bioinformatics - Data analysis
4	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
5	Scientific/Technical	Bioinformatics - Basics
6	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
7	Technology	Molecular Diagnostics - PCR/Real-time PCR
8	Scientific/Technical	Microbiology - Emerging infectious diseases
9	Leadership	Epidemiology for laboratory professionals
10	Scientific/Technical	Epidemiology - Epidemiology for laboratory professionals

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Technology	Molecular Diagnostics - Sequencing (NGS, WGS)
2	Scientific/Technical	Molecular Diagnostics - Sequencing (NGS, WGS)
3	Scientific/Technical	Bioinformatics - Application in public health laboratory
4	Leadership	Epidemiology for laboratory professionals
5	Scientific/Technical	Molecular Diagnostics - PCR/Real-time PCR
6	Technology	Molecular Diagnostics - PCR/Real-time PCR
7	Scientific/Technical	Bioinformatics - Data analysis
8	Scientific/Technical	Epidemiology - Epidemiology for laboratory professionals
9	Scientific/Technical	Information Systems - Laboratory informatics
10	Scientific/Technical	Bioinformatics - Basics

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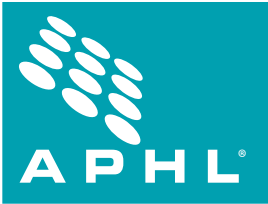
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2018 TRAINING NEEDS ASSESSMENT SUMMARY FOR INFORMATICS PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Informatics program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Information Systems - Electronic data exchange
5	Technology	Informatics - Analyzing and managing data from non-targeted analyses
6	Technology	Informatics - Electronic data exchange
7	Technology	Informatics - Big data
8	Technology	Informatics - Digital tools
9	Technology	Informatics - Biomonitoring data
10	Technology	Informatics - Artificial intelligence

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Information Systems - Laboratory informatics
5	Technology	Informatics - Electronic data exchange
6	Technology	Informatics - Analyzing and managing data from non-targeted analyses
7	Technology	Informatics - Digital tools
8	Technology	Informatics - Big data
9	Technology	Informatics - Biomonitoring data
10	Technology	Informatics - Opioids surveillance

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Information Systems - Laboratory informatics
4	Scientific/Technical	Bioinformatics - Basics
5	Technology	Informatics - Electronic data exchange
6	Technology	Informatics - Analyzing and managing data from non-targeted analyses
7	Technology	Informatics - Digital tools
8	Technology	Informatics - Biomonitoring data
9	Technology	Informatics - Big data
10	Technology	Informatics - Opioids surveillance

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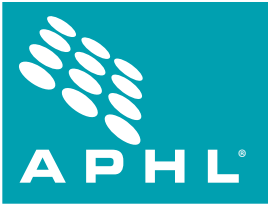
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2018 TRAINING NEEDS ASSESSMENT

SUMMARY FOR NEWBORN SCREENING & GENETICS PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Newborn Screening & Genetics program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Information Systems - Electronic data exchange
5	Scientific/Technical	Information Systems - Laboratory informatics
6	Scientific/Technical	Bioinformatics - Application in clinical laboratory
7	Scientific/Technical	Information Systems - Data analysis
8	Scientific/Technical	Information Systems - Digital tools
9	Scientific/Technical	Newborn Screening - Genetic testing – Molecular
10	Scientific/Technical	Information Systems - Laboratory automation

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Information Systems - Laboratory informatics
5	Scientific/Technical	Bioinformatics - Application in clinical laboratory
6	Scientific/Technical	Information Systems - Electronic data exchange
7	Scientific/Technical	Information Systems - Laboratory automation
8	Scientific/Technical	Information Systems - Digital tools
9	Scientific/Technical	Newborn Screening - Genetic testing – Molecular
10	Scientific/Technical	Information Systems - Data analysis

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Information Systems - Laboratory informatics
4	Scientific/Technical	Bioinformatics - Basics
5	Scientific/Technical	Information Systems - Electronic data exchange
6	Scientific/Technical	Information Systems - Data analysis
7	Scientific/Technical	Information Systems - Digital tools
8	Scientific/Technical	Information Systems - Laboratory automation
9	Scientific/Technical	Bioinformatics - Application in clinical laboratory
10	Scientific/Technical	Newborn Screening - Genetic testing – Molecular

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2018 TRAINING NEEDS ASSESSMENT

SUMMARY FOR PUBLIC HEALTH PREPAREDNESS & RESPONSE PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Public Health Preparedness & Response program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
4	Scientific/Technical	Bioinformatics - Basics
5	Scientific/Technical	Laboratory Safety – Biological
6	Scientific/Technical	Information Systems - Electronic data exchange
7	Scientific/Technical	Information Systems - Laboratory informatics
8	Scientific/Technical	Bioinformatics - Application in clinical laboratory
9	Scientific/Technical	Biosafety/Biosecurity - Risk assessment
10	Scientific/Technical	Information Systems - Data analysis

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Bioinformatics - Basics
4	Scientific/Technical	Laboratory Safety – Biological
5	Scientific/Technical	Biosafety/Biosecurity - Risk assessment
6	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
7	Scientific/Technical	Biosafety/Biosecurity - Biothreat agents
8	Scientific/Technical	Information Systems - Laboratory informatics
9	Scientific/Technical	Laboratory Safety – Chemical
10	Scientific/Technical	Packaging and Shipping

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Emergency Preparedness - Emerging pathogen preparedness
3	Scientific/Technical	Biosafety/Biosecurity - Biothreat agents
4	Scientific/Technical	Bioinformatics - Data analysis
5	Scientific/Technical	Packaging and Shipping
6	Scientific/Technical	Laboratory Safety – Biological
7	Scientific/Technical	Biosafety/Biosecurity - Risk assessment
8	Scientific/Technical	Emergency Preparedness - Sentinel bioterrorism
9	Scientific/Technical	Information Systems - Laboratory informatics
10	Scientific/Technical	Bioinformatics - Basics

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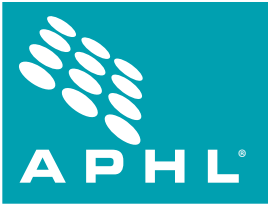
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2018 TRAINING NEEDS ASSESSMENT

SUMMARY FOR QUALITY SYSTEMS PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Quality Systems program can contribute.

Top 10 Trainings Selected by Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Laboratory Standards and Guidelines - Regulations that affect laboratory practice (e.g., HIPAA, CLIA, EPA)
2	Scientific/Technical	Bioinformatics - Application in public health laboratory
3	Scientific/Technical	Laboratory Science and Practice Fundamentals - Test validation
4	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality control/Quality assurance
5	Scientific/Technical	Bioinformatics - Data analysis
6	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality management systems
7	Scientific/Technical	Laboratory Standards and Guidelines - ISO standards
8	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality assessments and auditing
9	Scientific/Technical	Bioinformatics - Basics
10	Scientific/Technical	Laboratory Safety – Biological

Top 10 Trainings Selected by Supervisors for Their Staff

Rank	Category	Selected Training
1	Scientific/Technical	Bioinformatics - Application in public health laboratory
2	Scientific/Technical	Bioinformatics - Data analysis
3	Scientific/Technical	Laboratory Standards and Guidelines - Regulations that affect laboratory practice (e.g., HIPAA, CLIA, EPA)
4	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality control/Quality assurance
5	Scientific/Technical	Bioinformatics - Basics
6	Scientific/Technical	Laboratory Science and Practice Fundamentals - Test validation
7	Scientific/Technical	Laboratory Safety – Biological
8	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality assessments and auditing
9	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality management systems
10	Scientific/Technical	Laboratory Standards and Guidelines - ISO standards

Top 10 Trainings Selected by Non-Supervisors for Themselves

Rank	Category	Selected Training
1	Scientific/Technical	Laboratory Standards and Guidelines - Regulations that affect laboratory practice (e.g., HIPAA, CLIA, EPA)
2	Scientific/Technical	Laboratory Science and Practice Fundamentals - Test validation
3	Scientific/Technical	Bioinformatics - Application in public health laboratory
4	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality control/Quality assurance
5	Scientific/Technical	Bioinformatics - Data analysis
6	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality assessments and auditing
7	Scientific/Technical	Laboratory Safety – Biological
8	Scientific/Technical	Laboratory Science and Practice Fundamentals - Quality management systems
9	Scientific/Technical	Information Systems - Laboratory informatics
10	Scientific/Technical	Bioinformatics - Basics

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