

APHL COVID-19 Trainings

Modules & Objectives



No.	Module	Objectives
1	Coronaviruses and the laboratory biosafety guidelines related to COVID-19 testing	<ul style="list-style-type: none"> • Describe Coronaviruses • Discuss Novel Coronaviruses • Describe current laboratory diagnostic tests • Understand Laboratory Biosafety Guidance • Describe preventative measures related to COVID-19
2	Performing a Risk Assessment	<ul style="list-style-type: none"> • Define hazard, risk and consequences • Understand risk assessment and risk management • Identify pathogen risk factors • Determine risk level • Control for mitigation • Complete a risk assessment focused on COVID-19
3	Validation and Verification and why it is important	<ul style="list-style-type: none"> • Select a validation or verification, as appropriate for the new test introduction • Explain the value of validation and verification in laboratory quality management • List the steps of verification and validation • Calculate specificity, sensitivity, positive predictive value, negative predictive value and coefficient of variation • Describe the content of a verification plan and report.
4	Principles of Good Molecular Techniques and PCR Troubleshooting	<ul style="list-style-type: none"> • Describe elements of laboratory design essential for quality nucleic acid amplification testing • Discuss best laboratory practices to prevent contamination of laboratory environment • Describe best practices to minimize and detect contamination of samples in an analytical run
5	Sample collection, packaging and shipping	<ul style="list-style-type: none"> • Describe types, timing and how to collect specimens for COVID-19 diagnostic testing • Identify the proper storage for clinical specimens • Determine the appropriate shipping and packaging requirements for COVID-19 specimens to the laboratory • Determine if a specimen is of quality to test upon receipt in the laboratory