

Sample Handling and Assuring the Quality of Test Results

APHL Quality Management System (QMS) Competency Guidelines

This course will help staff discuss sample handling and assuring the quality of test results, including the importance of quality control (QC) in a laboratory committed to ensuring the consistent quality of the tests performed, the products created, the data generated, and the results reported.

Objectives:

1. Participant will learn what sample handling encompasses.
2. Participant will learn what the laboratory needs to consider in sample handling. Quality Control (QC)
3. Participant will understand the requirements of ISO/IEC 17025 in regards to quality control
4. Participant will learn what happens when QC fails.
5. Participant will understand the role of proficiency testing.

Sample handling includes ensuring the laboratory meets customer requirements, protects sample integrity, and provides appropriate security of samples

Public health laboratory competency guidelines: General (GEN) domain

GEN 4.00 Pre-examination: performs steps in the pre-examination phase of testing

GEN 4.01 Sample management

GEN 5.03 Quality control (QC) analysis

GEN 6.00 Postexamination: performs steps in the postexamination phase of testing

GEN 7.02 Proficiency testing (PT) and alternative assessment;

GEN 7.03 Proficiency testing (PT) and alternative assessment reporting

How are sample handling and QC related to each other?

...

- Results are only as good as the sample which is tested
- Ensuring proper sample handling supports the validity of testing
- Sample handling and QC also play a part in regulatory work by ensuring sample integrity and data defensibility



Chemistry (CHM) domain

CHM 2.05 Waste management related to samples; Adheres to policies, processes, and procedures related to sample waste management

CHM 3.00 Pre-examination: performs chemistry pre-examination procedures; CHM 3.01 Sample collection, labeling, and handling; CHM 3.02 Packaging and shipping; CHM 3.03 Material transport; CHM 3.04 Chemical threats (Describes the policies, processes, and procedures for the identification, handling, safety, appropriateness and triage of samples containing chemical agents of concern); CHM 3.05 Accessioning and receipt; CHM 3.06 Sample tracking; CHM 3.07 Sample evaluation and appropriateness for testing; CHM 3.09 Sample processing; CHM 3.10 Pre-examination sample storage and handling

CHM 4.00 Examination: performs chemistry examination procedures

CHM 4.03 Quality control (QC) analysis

CHM 4.05 Sample storage and handling after examination

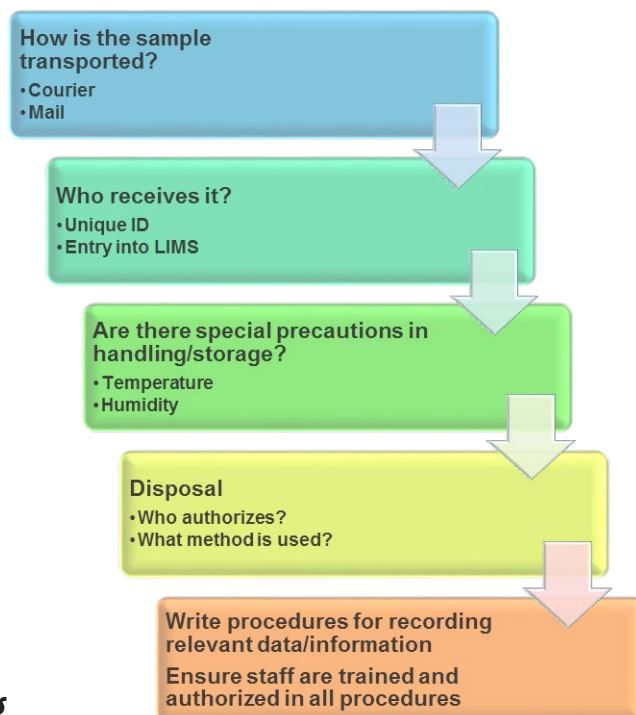
CHM 5.00 Postexamination: performs chemistry postexamination procedures

CHM 5.01 QC evaluation

CHM 5.04 Quality assurance (QA)

CHM 6.00 Regulatory compliance: ensures regulatory compliance;

CHM 6.02 Proficiency testing (PT) and alternative assessment



Sample Handling

