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Public Health Lab – Core Functions

- Disease prevention, control and surveillance
- Integrated data management
- Reference and specialized testing
- Environmental health and protection
- Lab improvement & regulation
- Food safety
- Policy development
- Emergency response
- Public health-related applied research
- Training and education
- Partnerships and communication



PUBLIC HEALTH LABORATORY ACTIVITIES

Newborn
Screening

Disease
Control
Division

Environmental
Chemistry

Environmental
Microbiology

Training &
Education

Biomonitoring

Public
Health
Applied
Research

CLIA Contract

Terrorism
Response

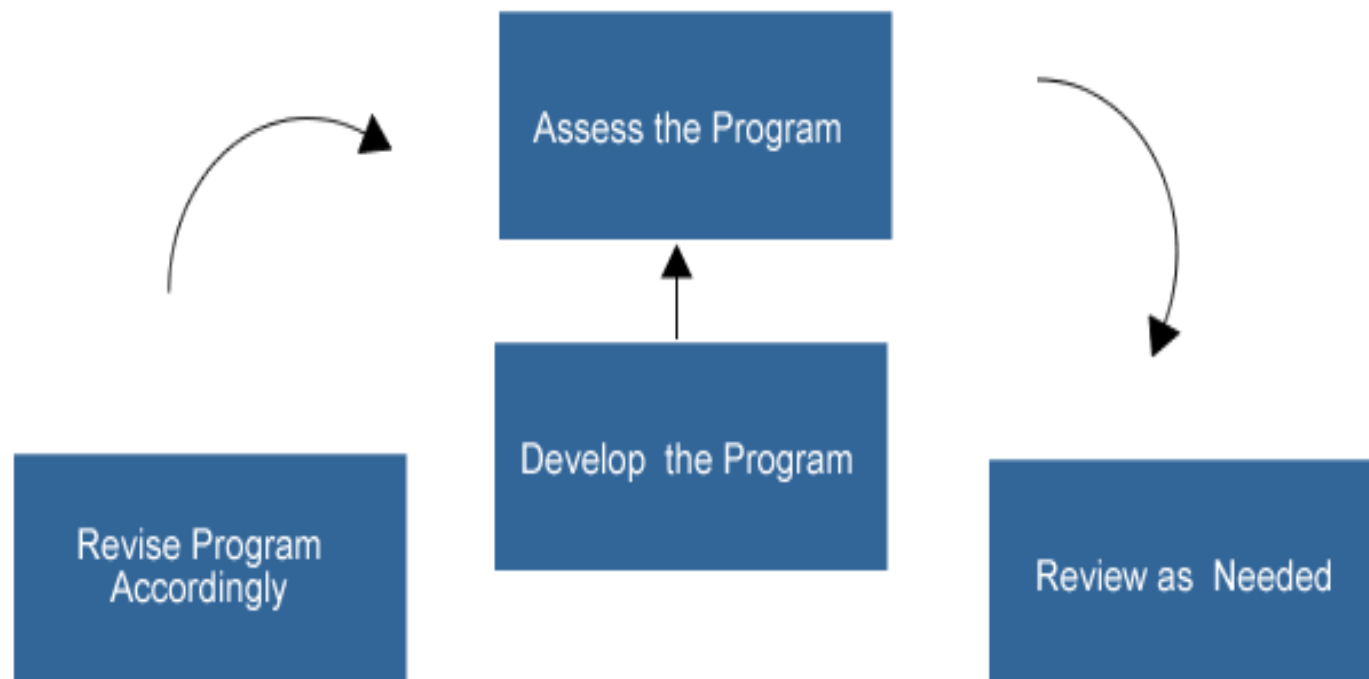
Policy
Development

Developing a Biosafety Program



Components of a Biosafety Program

Maintaining an effective biosafety program is an ongoing process, as shown in the diagram below.

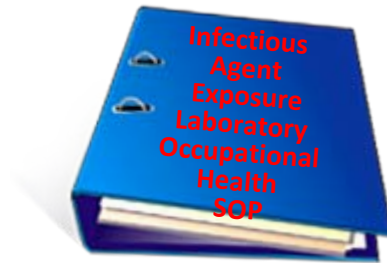


*Regular audits, plus:
After accidents
After exposure
After introduction of new testing
After introduction of new equipment*

Personnel Training

- Knowledge of the safety manual and protocols
- Training in the use of personal protective equipment
- Enrolled in the respirator program and fit-tested for a respirator by the Respirator Program Administrator
- Training in standard microbiology practices specific to the facility
- Trainee must demonstrate proper use and maintenance of equipment
- Training in emergency situations: such as spills, power outage, fire
- Training in security procedures and awareness

Biosafety & Biosecurity Components

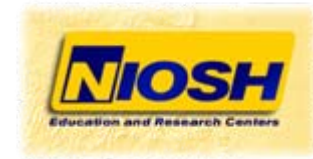


- Protocol driven PPE requirements
- Traffic Control/Inventory Control
- Sanitation – Cleaning & Disinfection
- Vector Control



Biosafety Regulations and Standards

- CDC
- OSHA
- NIOSH
- EPA
- JCAHO
- CAP
- CLSI
- CLIA



Advancing Excellence



Different Work, Different Labs

FEDERAL LABS: Focus on *national*-global health

Information to (on national level) to *guide national policies, support state and locals*

Develop new tests, offer rarely performed tests

PUBLIC HEALTH LABS: Focus on community

Data to Inform(ation to) public health decisions (officials)

Surveillance and Some diagnostic testing, emergency response, strain typing, emerging diseases, Environmental testing

CLINICAL LABS: Focus on the patient

Information to physicians

Specialize in diagnostic testing, offer tests to meet needs of facility, *HCP's*

