

LABORATORY OCCUPATIONAL HEALTH AND SAFETY

Reviewed by Standard Methods Committee, 2010; Editorial revisions, 2011; Joint Task Group, 2016 Edition—Albert A. LaRocque (chair), Daniel F. Benedict, B. Wayne Jackson, Michael C. Nichols, James H. Scott.

1090 A. INTRODUCTION

1. General Discussion

A safe and healthful workplace is the responsibility of the organization, the laboratory manager, the supervisory personnel and, finally, the laboratory personnel themselves. All laboratory employees must make every effort to protect themselves and their co-workers by conscientiously adhering to the health and safety program that has been developed and documented specifically for their laboratory. The information provided in 1090 is intended only as general principles to consider and not intended to replace federal, state, or local regulatory requirements in the United States or regulatory requirements applicable in other countries. When developing a health and safety program, the organization and personnel responsible for maintaining the safety program must be aware of all applicable regulations and should consult with professionals having experience in each area of safety.

2. Organizing for Safety

a. Overall program: The responsibility for establishing and enforcing a laboratory health and safety (LH&S) program ultimately rests with the laboratory director. The LH&S program must, at the minimum, address protecting oneself from the hazards of working with biological (1090 H), chemical (1090 I), and radiological (1090 J) agents. Such a program is a necessary component of an overall laboratory quality system that provides for the health and safety of the entire laboratory staff. As a part of the quality system, all aspects of the LH&S program must be fully documented. Laboratory personnel must be trained. The LH&S program must be fully implemented and its application audited periodically. Appropriate records of all activities must be kept to document performance, meet appropriate regulatory requirements, and document the status of the LH&S program.

In the United States, the minimum standard of practice for health and safety activities is detailed in government documents.^{1,2} When required or appropriate, each laboratory appoints a chemical hygiene officer (CHO), a biological hygiene officer (BHO), a radiological hygiene officer (RHO), and if appropriate or desired, a LH&S committee. The CHO, the committee, and laboratory management must develop, document, and implement a written laboratory hygiene plan (LHP), or chemical hygiene plan (CHP).

b. Specific responsibilities: Specific responsibilities applicable at various levels within the organization are as follows:

1) The chief executive officer (CEO) has ultimate responsibility for LH&S in the organization and, with other managers and supervisors, must provide continuous support for the LH&S program.

2) The supervisor or designee (or both) has primary responsibility for the LH&S program in his or her work group.

3) The biological hygiene officer (BHO) has the responsibility to

- work with managers, supervisors, and other employees to develop and implement appropriate biological hygiene policies and practices;
- monitor procurement, use, and disposal of biological agents used in the laboratory;
- see that appropriate audits are conducted and that records are maintained;
- know the current legal requirements concerning working with biological agents; and
- seek ways to improve the biological hygiene program.

4) The chemical hygiene officer (CHO) has the same responsibilities as the biological hygiene officer, but with respect to chemicals, and also is responsible for helping supervisors (project directors) develop precautions and adequate facilities, and for keeping safety data sheets (SDSs) available for review.

5) The radiological hygiene officer (RHO), referred to as *radiation safety officer* in most regulatory language, has the same responsibilities as the chemical hygiene officer, but with respect to radiological chemicals and exposure.

6) The laboratory supervisor or designee has overall responsibility for chemical hygiene in the laboratory, including responsibility for

- ensuring that workers know and follow the chemical hygiene rules, that protective equipment is available and in working order, and that appropriate training has been provided;
- performing regular, formal chemical hygiene and house-keeping inspections, including routine inspections of emergency equipment, and maintenance of appropriate records;
- knowing the current legal requirements concerning regulated substances;
- specifying the required levels of protective apparel and equipment needed to perform the work; and
- ensuring that facilities and training for use of any material being ordered are adequate.

7) The project director (or a director of a specific operation) has primary responsibility for biological, chemical, and radiological hygiene procedures as appropriate for all operations under his or her control.

8) The laboratory worker has the responsibility for planning and conducting each operation in accordance with the institutional chemical hygiene, biological hygiene, and radiological hygiene procedures, and for developing good personal chemical, biological, and radiological hygiene habits.

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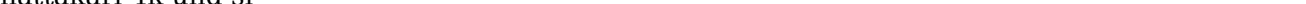
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