

**CLASS TITLE: PRINCIPAL ENVIRONMENTAL HEALTH
 RISK ASSESSMENT TOXICOLOGIST**

**Class Code: 02722500
Pay Grade: 39A
EO: B**

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: In the Department of Health, to be responsible for planning, supervising, performing and evaluating complex toxicologic health risk assessments of environmental and occupational exposures to hazardous materials; to assist the Medical Epidemiologist (Chief, Office of Environmental Health Risk Assessment) in planning, administering, and directing all activities of the Office of Environmental Health Risk Assessment: to plan, supervise and review the development and evaluation of environmental health standards for hazardous materials; to develop and test complex new models, fostering the evolution of this new scientific discipline; to make recommendations to superiors on risk management of environmental and occupational health hazards and on environmental and occupational health policy and legislation; to advise, assist and respond to the concerns of, and communicate risk information to, groups and individual members of the public and to public officials concerning risk assessment of environmental and occupational health hazards; and to do related work as required.

SUPERVISION RECEIVED: Works under the general direction of the Medical Epidemiologist (Chief, Office of Environmental Health Risk Assessment) with wide latitude for the exercise of initiative and independent judgement; work is reviewed for conformance to established policies and procedures.

SUPERVISION EXERCISED: Assists in the overall planning, organization, supervision and review of the work of a team of professional and clerical personnel.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To be responsible for supervising and performing the most complex and sophisticated health risk assessments of environmental and occupational hazards.

To develop and test complex new methods, criteria, models, and protocols of environmental health risk assessment in order to perform health risk assessments of exposures to contaminants via multiple and diverse media, advancing the state of the art and fostering the evolution of this new scientific discipline.

To supervise subordinates in the development of new environmental health standards and in the evaluation of current environmental health standards, and to review, evaluate and support the models and methodologies used in the process.

To make recommendations to superiors on environmental and occupational health policy and legislation.

To assist the Medical Epidemiologist (Chief, Office of Environmental Health Risk Assessment) in epidemiological investigations of environmental and occupational health hazards.

To make recommendations on risk management of environmental and occupational health hazards.

To interpret and communicate complex toxicologic risk assessment and health hazard information and provide expertise and advice on these and related issues to other divisions and personnel in the Department of Health, to programs within the Department of Environmental Management, and other departments, offices, and legislative committees.

To interpret and communicate complex risk assessment and health hazard information to members of the general public, concerned citizens and citizen groups, health professionals and public officials, regarding specific contaminants or general contaminant settings.

To consult with environmental and occupational program administrators in the Department of Health and the Department of Environmental Management in designing and conducting investigations and research projects.

To design appropriate data collection and sampling schemes for performing complex state-of-the-art environmental health risk assessments of sites contaminated by hazardous materials.

To appear in court or at hearings as an expert witness.

To evaluate and interpret the toxicologic literature concerning the most complex and sophisticated characteristics of hazardous materials, including their health effects, molecular mechanisms, and chemical interactions.

To develop scientific reports and to review and evaluate the reports of subordinates and make recommendations as to their release and publication.

To provide training and educational programs to personnel in the Department of Health and the Department of Environmental Management and to the general public.

To establish and maintain a network of contacts throughout the state and federal governments to facilitate effective communication and coordination with other state and federal agencies.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the principles, practices, and techniques of toxicologic health risk assessment and the ability to plan, direct, perform and evaluate the most complex and sophisticated health risk assessments in environmental and occupational settings; a thorough knowledge of the state of the art research techniques in environmental toxicology and health risk assessment; a thorough knowledge of the principles and practices of environmental toxicology and related fields; a working knowledge of the relevant scientific literature in toxicology, risk assessment and related fields and the ability to evaluate, assess, interpret and abstract that literature; the ability to provide consultative services to interested parties in and outside the department; the ability to supervise and provide technical advice and administrative guidance to subordinate staff; the ability to present expert testimony in court or at hearings; the ability to represent the department in official relationships with public and private agencies, organizations and institutions; the ability to provide training and instruction in health risk assessment and related fields; the ability to prepare, evaluate, and approve complex reports and papers; the ability to establish and maintain effective working relationships with public and private officials, groups, and individuals; the ability to communicate highly complex and sophisticated information effectively to skilled professionals, media and the public; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: possession of a Doctorate Degree in Toxicology, Chemistry, or Biological Science with specialization in Toxicology; and

Experience: Such as may have been gained through: employment in a responsible professional position involving extensive planning, performance and evaluation of complex and state of the art environmental toxicologic health risk assessments and involving supervision of other professionals performing health risk assessments.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Created: March 12, 1989

Editorial Review: 3/15/03