

### INDUSTRIAL HYGIENIST 3

#### KIND OF WORK

Advanced professional consultative or enforcement industrial hygiene work.

#### NATURE AND PURPOSE

Under limited supervision, performs advisory or investigative work to identify and eliminate health hazards in the work place and to ensure enforcement of occupational health and safety standards; performs related work as required.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Inspects places of employment to detect health hazards including those caused by airborne contaminants, toxic substances, and harmful physical agents, by observing the work environment, interviewing employees, executing standard tests, such as collecting and analyzing chemical samples, taking noise measurements, and comparing findings to established occupational health safety standards.

Conducts the most difficult inspections such as foundries and heavy industries and accident and fatality investigations so that health and safety hazards can be reported.

Advises employers through on-site consultations and technical reports, so that hazardous health and safety conditions can be corrected.

Determines methods of correction and penalties for health and safety violations to include in written reports submitted to the employer and the Department of Labor and Industry by considering previous findings.

Writes narrative reports detailing occupational health and safety investigation findings so that violations will be corrected; uses established report writing format.

Testifies at hearings, when findings are challenged, to present evidence and testimony using notes compiled from case files.

Trains employers, employees, consultants and staff so that they are aware of their rights, obligations and responsibilities in the area of occupational health and safety; uses standard training methods and techniques, visual aids and training materials.

Assigns field investigations so that investigations are completed in a timely manner and staff are adequately prepared for assignments, by establishing and adjusting inspection schedules and instructing staff in correct procedures and advising them of potential hazards and problems.

Monitors field investigations to ensure that inspection procedures are followed and that decision making is consistent, by periodically accompanying staff on investigations, discussing findings and recommendations with staff and reviewing, correcting and approving investigation reports.

Supervises testing and calibration of equipment so that equipment is maintained in good repair, calibrated and functioning properly, by training staff in the proper use and calibration of equipment, repairing equipment, setting up testing equipment for evaluations and maintaining records of tests and repairs.

Presents lectures on industrial hygiene topics to provide staff and professional groups with current information; researches topic and prepares reference handouts and presentation outline.

Answers questions from the public relating to occupational health and safety matters, so that they are correctly informed; researches information and provides both written and verbal responses.

### KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Industrial hygiene principles and practices sufficient to conduct complex health and safety investigations and to direct the work of less experienced investigators.

Physiology, chemistry, physics, engineering, medicine and biochemistry sufficient to recognize, evaluate and determine appropriate corrections for health and safety hazards in the work place.

Minnesota and federal occupational health and safety standards sufficient to determine violations and to advise employers and staff.

Sampling and safety equipment sufficient to instruct others in their use.

Industrial hygiene issues sufficient to respond to a wide variety of questions from the public.

Health and safety hazards sufficient to advise employers and employees in an extensive variety of occupational work settings.

Supervisory principles and practices sufficient to assign, direct and evaluate the work of others.

Training principles and practices sufficient to develop training programs and materials.

Ability to:

Write narrative technical reports, correspondence simplifying technical information requested by the public and training and other informational materials.

Read and comprehend technical literature.

Address groups and effectively communicate technical information to employers, employees and professional groups.

Test and calibrate sampling equipment.

Use mathematical equations to evaluate data.

#### SPECIAL WORK CONDITIONS

Incumbents in this class travel as much as 50% of the time. As much as half of their travel time may require overnights.

EST.: 12/73

Rev.: 2/82; 4/85

T.C.: 2/82, 4/85

Former Title(s): Industrial Hygienist;  
Industrial Hygienist, Senior