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1.0 Introduction

Although elimination or reduction of respiratory hazards through substitution or engineering controls are preferred, there may be instance in which faculty, staff and students may require the use of appropriate respiratory protection for work, which involves exposure to potentially hazardous environments, such as airborne contaminants (dusts, fumes, mists, gases, vapours, aerosols, airborne pathogens or oxygen deficiency) The Saskatchewan OH&S Regulations as well as The Canadian Standards Association (CSA) Standard Z94.4-02 (Selection, Use and Care of Respirators) requires a written respiratory protection program to be in place where respiratory protection is used to protect faculty, staff and students from inhaling hazardous atmospheres.

The basic elements of the Respiratory Protection Program are:

1) Education of faculty, staff and students on airborne hazards in work place;
2) Selection of appropriate respirators;
3) Provision of respirator fit testing;
4) Provision of training in the proper use of respiratory protection;
5) Provision of appropriate procedures for cleaning, inspecting and storing respirators;
6) Provision of medical surveillance for faculty, staff and students using respiratory protection;
7) Provision for evaluating the effectiveness of this program;
8) Maintenance of training, fit testing, and medical surveillance records.

Objective
It is the objective of this program to adequately protect the health of all faculty, staff and students coming into contact with hazardous atmospheres, where there is no possibility of implementing engineering or work practice controls. In addition, this program is meant to increase the awareness of respiratory hazards in the workplace and to inform faculty, staff and students of means available to protect themselves and others from those hazards.

Scope
This program applies to any faculty, staff or Student who may be exposed to respiratory hazards during the course of a research, learning or work activity.

2.0 Definitions

Accepted Respirator - A respirator tested and certified by procedures established by the National Institute for Occupational Safety and Health (NIOSH).

Air purifying respirator – A respirator with an air-purifying filter, cartridge, or canister that removes specific contaminants by passing ambient air through the air-purifying element.

Fit test – The use of qualitative or quantitative method to evaluate the fit of a specific make, model, and size of respirator on an individual.
Filter classifications - indicate the minimum filtration efficiency and the contaminant class. The rating will indicate a contaminate class of N, R, or P and an efficiency of 95, 99 or 100%. Examples of the NIOSH Classifications are:

- **N100** – Filters at least 99.97% of airborne particles. Not resistant to oil.
- **R99** – Filters at least 99% of airborne particles. Somewhat resistant to oil.
- **P95** – Filters at least 95% of airborne particles. Strongly resistant to oil.

Hazardous atmosphere – Any atmosphere that is oxygen-deficient, exceeds occupational exposure limits, presents a fire/explosion hazard, and/or contains an airborne toxic or disease-producing contaminant in concentrations deemed to be hazardous.

Health Care Professional – An individual who is licensed by a provincial licensing authority or equivalent to practice medicine or nursing and who possesses relevant experience and knowledge in the field of occupational health and safety.

Immediately Dangerous to Life and Health (IDLH) – An atmosphere that poses an immediate threat to life, would cause adverse health effects, or would impair an individual ability to escape.

Qualified person – An individual who possesses the knowledge, experience, and training to fulfil the competencies of the roles defined in this program.

Quantitative fit test – A test method that uses an instrument to assess the amount of leakage into the respirator in order to assess the adequacy of respirator fit.

Qualitative fit test – A pass/fail test method that relies on the subjects’ sensory response to detect a challenge agent in order to assess the adequacy of respirator fit.

Respirator – A device to protect the user from inhaling a hazardous atmosphere.

Service Life – The period of time during which a respirator provides adequate protection to the user.

User Seal Check – An action conducted by the respirator user to determine if the respirator is properly sealed to the face.

Tight-fitting face piece – A respirator inlet covering that forms a complete seal with the face. This includes a half-face piece that covers the user’s nose and mouth under the chin; and a full face piece that covers the users nose, eyes and mouth under the chin.
3.0 Legislation

Sections 88 of the Occupational Health and Safety Regulations requires the University to ensure that appropriate respiratory protective devices are provided, whenever it is not possible or reasonably practicable to protect faculty, staff and students through design of the workplace, work processes, suitable work practices or by administrative controls.

Respiratory protective devices

(1) Where a worker is likely to be exposed to dust, fumes, gas, mist, aerosol or vapour or any airborne contaminant that may be present in any amounts that are harmful or offensive to the worker, an employer or contractor shall:
   (a) provide an approved respiratory protective device for use by the worker that:
      (i) suitable and adequate protection to the worker from one or more airborne contaminants;
      (ii) is the proper size for the worker’s face;
      (iii) where a tight fit is essential to the proper functioning of the respiratory protective device, makes an effective seal to the facial skin of the worker; and
      (iv) where a tight fit is essential to ensure the worker is not exposed to one or more airborne contaminants to an extent that may pose a risk of significant harm to the worker, has been fit-tested by a competent person in an approved manner;
   (b) ensure that the respiratory protective device is regularly cleaned and maintained in an approved manner; and
   (c) ensure that the respiratory protective device is kept, when not in use, in a convenient and sanitary location in which the respiratory protective device is not exposed to extremes of temperature or to any contaminant that may inactivate the respiratory protective device.

(2) If a respiratory protective device as required by subsection (1) is provided to a worker, the employer or contractor shall ensure that the worker:
   (a) has been trained by a competent person in the proper testing, maintenance, use and cleaning of the respiratory protective device and in its limitations;
   (b) can demonstrate that he or she:
      (i) understands the training provided pursuant to clause (a);
      (ii) can test, maintain and clean the respiratory protective device; and
      (iii) can use the respiratory protective device safely;
   (c) tests the respiratory protective device before each use;
   (d) is assessed according to an approved standard as being capable of wearing a respiratory protective device; and
   (e) is adequately informed respecting the reasons for the assessment required pursuant to clause (d).

(3) An employer or contractor shall ensure that the training required by clause (2)(a) includes practical experience by the worker in an uncontaminated environment.

(4) Where respiratory protective devices are used only for emergency purposes, an employer or contractor shall ensure that a worker who may be required to use a respiratory protective device is given semi-annual refresher training in its safe use.
An employer shall ensure that the following records are kept as long as the worker is employed by the employer and made readily available for inspection and examination by the committee or the representative, as the case may be:
(a) records respecting fit-testing for each worker that is completed pursuant to subclause (1)(a)(iv);
(b) records respecting the results of assessments for each worker that are completed pursuant to clause (2)(d);
(c) records respecting training completed by each worker pursuant to subsections (2) and (3).

An employer shall ensure that any records mentioned in clause (5)(b) respecting a worker that are made available for inspection and examination pursuant to subsection (5) do not disclose any personal health information as defined in The Health Information Protection Act respecting the worker, unless the worker agrees to that disclosure.

An employer shall ensure that records respecting the maintenance of atmosphere-supplying respirators are kept and made readily available for inspection and examination by the committee or the representative as long as the worker is employed by the employer.

A worker may, at any time, inspect and examine any records kept pursuant to subsection (5) or (7) that relate to the worker committee or the representative as long as that worker is employed by the employer.

### 4.0 Responsibilities

#### 4.1 Vice-President (Administration) will:

4.1.1 ensure the management support and leadership necessary to provide a safe and healthy environment for faculty, staff and students, in compliance with the Health and Safety Policy.

4.1.2 ensure that adequate resources are available to implement appropriate measures.

#### 4.2 Associate Vice-Presidents, Deans, Directors, Department and Unit Heads will:

4.2.1 ensure that these procedures are communicated to the faculty, staff and students.

4.2.2 require compliance with the procedures.

4.2.3 ensure a “Screening Form” is completed by the respirator user and provided to HSE. (See Form 1 – Respirator User Screening Form)

4.2.4 ensure the identification of areas or work processes where hazardous atmospheres warrant the need for a respirator.

4.2.5 ensure that where the need for a respirator is identified the user has been fit tested by a qualified person, and that records are maintained. (See Form 2 – Fit Testing Record)

4.2.6 ensure that where a respirator is required, the users are adequately trained in proper testing, maintenance, use and cleaning of the respiratory device, and that records are maintained.

#### 4.3 Supervisors will:

4.3.1 provide approved respirators that protect against the identified atmospheric hazards.

4.3.2 ensure that where the need for a respirator is identified the user has been fit tested by a qualified person.
4.3.3 ensure that where a respirator is required, the users are adequately trained in, and able to demonstrate, the proper testing, maintenance, use and cleaning of the respiratory device.

4.3.4 require compliance with these procedures and respirator specific manufacturer instructions.

4.3.5 maintain all applicable records and ensure the completed “Respirator User Screening Forms” are forwarded to HSE.

4.3.6 consult with HSE where a hazard assessment determines the need for respiratory protection.

4.4 Respirator users will:

4.4.1 comply with the procedures regarding respirator use.

4.4.2 use the respirators in accordance with their training and instruction.

4.4.3 clean, disinfect and store the respirator appropriately.

4.4.4 report any respirator malfunction to their supervisor.

4.4.5 ensure that when a respirator is required, that a fit test is completed prior to the first use, and any time conditions change.

4.4.6 ensure a seal check is performed prior to each use.

4.4.7 complete a “Screening Form” and return it to your supervisor. (See Form 1 – Respirator User Screening Form)

4.5 University Health and Safety Committee will:

4.5.1 support and promote implementation of the procedures and related education and training.

4.5.2 monitor the adequacy and effectiveness of the procedures.

4.6 Health, Safety & Environment (HSE) will:

4.6.1 provide expertise and advice to all faculty, staff and students on matters pertaining to respiratory requirements, general respiratory training information, and fit testing.

4.6.2 receive, review and investigate all incidents related to respiratory protection and provide recommendations for corrective action.

4.6.3 maintain an accurate record of all faculty, staff and students’ Respirator Screening Forms.

4.6.4 evaluate the program annually and ensure the procedures are kept current.

5.0 Program

5.1 Hazard Assessment

In order to determine the presence of a respiratory hazard and to assist in selection of an appropriate respirator, a hazard assessment of the research, learning or work activity shall be conducted by the supervisor and individual conducting the activity. The hazard assessment of a respiratory hazard includes the following:

a) Identification of contaminants (chemical, biological) that may be present in the workplace;

b) Identification of physical states of all airborne contaminants;

c) Determination of the likelihood of inhalation of the contaminants;

d) Measurement or estimation of the concentration of the contaminants;

e) Determination of oxygen level (potential oxygen deficiency);

f) Identification of appropriate occupational exposure limit for each airborne contaminant;
g) Determination of whether the atmosphere is immediately dangerous to life and health (IDLH);

h) Determination of existence of adequate warning properties;

i) Determination of skin or eye absorption and irritation characteristics.

In instances where exposure cannot be identified or reasonably estimated, the atmosphere shall be considered IDLH.

Once the Hazard assessment has been completed, you must contact HSE to arrange a time to complete the Fit Test Procedure.

5.2 Selection of Respirators

Respirators shall be selected based on the following criteria:

a) Health of the wearer and ability to wear a respirator

b) Review of the hazard assessment

c) Existing legislation and standards

d) Work requirements and conditions

e) Duration of exposure

f) Characteristics and limitations of respirators

g) Respirator assigned protection factors
   ◦ Only accepted respirators shall be selected and used
   ◦ Respirators shall be selected by supervisors in consultation with the HSE department
   ◦ Respirator selection charts can also be used to assist in the selection of an appropriate respirator
   ◦ Faculty, staff and students shall be issued only those respirators for which they have been fit tested and medically approved.

5.3 Respirator Fit Testing

5.3.1 Faculty, staff and students must pass an appropriate quantitative or qualitative fit test before using a respirator with a tight-fitting face piece.

5.3.2 The fit testing shall be conducted by the HSE department or representative.

5.3.3 A fit test shall be carried out,

a) prior to initial use of a tight-fitting respirator.

b) every 2 years.

c) whenever there is change in respirator face piece (make, model, or size).

d) whenever the faculty member, staff or student reports, or the health care professional, supervisor, or HSE makes visual observations of changes in the employee’s physical condition that could affect respirator fit. Such conditions include, but not limited to: Facial scarring, dental changes, cosmetic surgery, obvious change in body weight and facial rash (dermatological condition).

5.3.4 The employee shall be fit tested with the same make, model, style and size of the respirator being used.

5.3.5 The fit test shall be performed only on faculty, staff and students who are clean-shaven where the face piece seals to the skin.

5.3.6 When a faculty, staff or student is required to wear other PPE items, such as eye, face, head and hearing protection during his/her course of work, the same protective equipment shall be worn during the fit test to ensure that they are compatible with the respirator and do not break the facial seal.
5.4 Training

5.4.1 All faculty, staff and students whose work requires the use of a respirator shall receive appropriate training and education.

5.4.2 Faculty, staff and students shall receive training prior to the initial use of the respirator.

5.4.3 Training shall be provided by the HSE department:
   a) Why respiratory protection is necessary;
   b) The limitations and capabilities of respiratory equipment;
   c) Respiratory hazard assessment;
   d) Logic for selecting a particular type of respirator;
   e) How to inspect, put on and remove a respirator, and how to perform user seal checks;
   f) Procedures for maintenance and storage of respiratory equipment;
   g) How to recognize medical signs and symptoms that may limit or prevent the effective use of the respirator;
   h) General requirements of the Respiratory Protection Program.
   i) Refresher training shall be provided every two years to all respirator users.
   j) Records of training shall be updated and maintained by the HSE department.

5.5 Use of Respirators

5.5.1 Prior to being assigned any task that requires the use of a respirator, the employee shall complete all the health screening, fit testing and training requirements.

5.5.2 Faculty, staff and students with facial hair that may interfere with the face piece seal or valve function on tight-fitting respirators cannot use a tight-fitting respirator.

5.5.3 Other personal protective devices or equipment shall not interfere with the seal of the face piece to the face of the employee.

5.5.4 Side arms on eyeglasses or any other material such as hair, cloth, tissue, straps and jewellery shall not pass between the face and the sealing surface of the face piece or interfere with the seal of the tight-fitting face piece to the face or with the operation of the respirator. Faculty, staff and students who must have corrective eyewear, where the eyewear interferes with the respirator seal, shall be provided with respirator spectacle kits by their department.

5.5.5 Faculty, staff and students shall check the seal of the face piece immediately after putting on the respirator.

5.5.6 Faculty, staff and students should never break the respirator face to face piece seal to communicate.

5.5.7 All faculty, staff and students shall not remove their face pieces at any time while working in an IDLH atmosphere.

5.5.8 The respirator shall not be altered in any manner.

5.5.9 All cartridges, replacement parts, etc, shall be from the same manufacturer as the respirator.

5.5.10 Faculty, staff and students shall be permitted to leave the hazardous area for any respirator related reason. The employee shall leave the hazardous area when:
   a) The respirator fails to provide adequate protection;
   b) The respirator malfunctions;
   c) He/she detects air leakage around the face seal;
   d) He/she detects an odour or tastes chemical;
   e) He/she has increased breathing resistance;
f) He/she experience any illnesses or discomforts such as dizziness, nausea, weakness, breathing difficulties, sneezing, fever, shills, confusion, etc;
g) He/she experiences extreme discomfort from wearing the respirator;
h) He/she needs to wash his or her face and face piece to minimize skin irritation;
i) Components such as purifying devices need change-out.

5.6 Cleaning, Inspection, Maintenance, and Storage of Respirators

5.6.1 All individuals are responsible for obtaining a respirator that is clean, sanitary and in good working order.

5.6.2 All faculty, staff or students issued a respirator shall properly maintain his/her respirator to retain its original effectiveness. The maintenance shall include:
   a) Cleaning and sanitizing
   b) Inspection and testing
   c) Proper storage

5.6.3 The respirator shall be cleaned and sanitized according the respirator manufacturer’s instructions/recommendations.

5.6.4 Respirators issued to individual faculty, staff and students shall be cleaned and disinfected as often as necessary to maintain proper hygiene.

5.6.5 The faculty, staff or Student shall inspect his/her respirator before and after each use.

5.6.6 The faculty, staff or Student shall report all defective or non functioning respirators to his/her supervisor. These respirators shall be tagged and removed from service by the supervisor until repaired or replaced.

5.6.7 Any respirator repairs, and subsequent tests and checks shall be performed by the unit manufacturer or by a qualified person. Defective or non functioning half masks face pieces shall not be repaired buy will be disposed and replace instead.

5.6.8 Faculty, staff or Student shall store their respirators in a clean and sanitary location, in boxes or in plastic bags, marked with each workers name. The respirators shall be stored in a manner that will protect them from dust, ozone, sunlight, heat, extreme cold, excessive moisture, vermin, damaging chemicals, oils, greases, or any other potential hazard that may have detrimental effects on the respirator.

5.6.9 When packed or stored, each respirator should be positioned to retain its natural configuration.

5.6.10 Used cartridges/filters to be reused shall be stored in a manner to prevent contamination of the respirator face piece.

5.7 Medical Surveillance

5.7.1 Prior to fit testing and respirator use, it shall be confirmed that the individual is free from any physiological or psychological condition that may prevent him or her from being assigned the use of the selected respirator. This shall be achieved through the use of the respirator screening form.

5.7.2 The individual and his/her supervisor shall complete their respective parts of the respirator user screening form and send them to HSE prior to the fit test being completed.

5.7.3 Where, based on the respirator user screening form, HSE is concern that a physiological or psychological condition exists that may preclude the user of a respirator, HSE shall require a medical evaluation before usage of the respirator occurs.

5.7.4 The medical evaluation shall consist of a primary assessment conducted by a Physician.
5.7.5 The individual, supervisor and HSE shall provided the Physician with the information regarding the conditions of the respirator use and type of respirators required.

5.7.6 After the medical evaluation, the physician shall provide the HSE department with a written opinion regarding the faculty, staff and students’ ability to use a respirator. The opinion shall indicate one of the following:
   a) User meets medical requirements to use the selected respirator;
   b) User meets medical requirements to use the selected respirator with limitations;
   c) User does not meet medical requirements to use the selected respirator.

5.7.7 The re-evaluation of the individual shall not be performed on an annual basis.

5.7.8 The re-evaluation shall be performed based on one of the following criteria:
   a) The faculty, staff or Student reports signs or symptoms that are relevant to the faculty, staff and students ability to use a respirator;
   b) The Physician, direct supervisor and HSE considers it necessary for the individual to be re-evaluated;
   c) A change in workplace conditions occurs that may result in substantial increase in the physiological burden that respirator use places on the individual.

5.7.9 Faculty, staff and students who don’t meet medical requirements to use a selected respirator shall not work in an area where the use of a respirator is required.

5.8 Program Evaluation

5.8.1 The Respiratory Protection Program shall be reviewed annually by the HSE department.

5.8.2 The review of the program shall include:
   a) A review of program elements against regulatory requirements;
   b) A review of definitions of roles and responsibilities;
   c) A review of documented program procedures;
   d) Examination of records to verify that documented procedures are being followed;
   e) Confirmation that workplace practices comply with program requirements;
   f) Documentation of performance problems and subsequent resolution or corrective action plans;
   g) Stakeholder input to verify acceptance;
   h) Proper selection and use of respirators;
   i) Effective training of all stakeholders;
   j) Proper inspection of respirators; and
   k) Proper storage and maintenance of respirators.

5.8.3 HSE shall review the information derived from the medical monitoring performed, when available.

5.9 Recordkeeping

5.9.1 Supervisors shall maintain records of the following:
   a) Training for faculty, staff and students under their supervision
   b) Respirator selection
   c) Inspection, maintenance and storage
   d) Hazard Assessment

5.9.2 HSE shall maintain the records of the following:
   a) Fit testing
   b) Training
   c) Hazard assessment
d) Respirator selection

e) Program evaluation

f) Medical records for faculty, staff and students that had undergone medical evaluations. These records shall be treated as medically confidential.

5.9.3 The fit testing records shall consist of the following:

a) Name and identification of employee tested

b) Type of test performed

c) Make, model and size of the respirator fitted

d) Date of the fit test

e) Result of the fit test

f) Name of the person conducting the fit test
**Respirator User Information**

<table>
<thead>
<tr>
<th>Name (please print)</th>
<th>User/Banner ID #</th>
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<tbody>
<tr>
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<table>
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<tr>
<th>Occupation/Department (please print)</th>
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<table>
<thead>
<tr>
<th>Supervisor Name (please print)</th>
<th>Telephone</th>
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<table>
<thead>
<tr>
<th>Name of Person Performing Test (please print)</th>
<th>Telephone</th>
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<table>
<thead>
<tr>
<th>Type of Respirator Model / Size</th>
<th>Expiry Date</th>
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<tbody>
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</tbody>
</table>

**Conditions of Use**

**Activities requiring respirator use:**

________________________________________________________________

Frequency of respirator use:

- [ ] daily
- [ ] weekly
- [ ] monthly
- [ ] yearly
- [ ] emergency use only

Exertion level during use:

- [ ] light
- [ ] moderate
- [ ] heavy
- [ ] other

Duration of respirator use per shift:

- [ ] < ¼ hr
- [ ] > ¼ hr
- [ ] > 2 hr
- [ ] variable

Temperature during use:

- [ ] <0°C
- [ ] >0 & <25°C
- [ ] >25°C

Atmospheric pressure during use:

- [ ] reduced
- [ ] normal/ambient
- [ ] increased

Special work considerations:

________________________________________________________________

Uncontrolled hostile environment:

- [ ] emergency escape
- [ ] rescue operations
- [ ] hazardous materials (emergency)
- [ ] oxygen deficiency
- [ ] confined spaces
- [ ] other _______________________

Other personal protective equipment:

- [ ] additional types of personal protective equipment required (specify): ______________________________

- [ ] estimated total weight of tools/equipment carried during respirator use: maximum _____ average: _____

**Types of Respirators Used** (check all that apply)

- [ ] tight-fitting
- [ ] air-purifying, disposable
- [ ] air-purifying, nonpowered
- [ ] combination pressure demand/supplied-air with escape
- [ ] combination supplied-air with air-purifying elements
- [ ] non-tight-fitting (eg, hood)
- [ ] supplied-air, demand
- [ ] supplied-air, continuous-flow
- [ ] supplied-air, pressure-demand
- [ ] SCBA – open circuit
- [ ] SCBA – closed circuit
- [ ] SCBA – escape
- [ ] SCBA – closed circuit escape
- [ ] other – specify ___________________
Authorization for SCBA Use

AVP/Dean/Director/Unit Head ____________________________  Date ____________________________

Health Surveillance
Health surveillance is important to ensure that a person is able to use a respirator without serious difficulty. The use of a respirator may place a physiological or psychological burden on a person that depends on:
   a) the health of the person;
   b) the type of respirator worn; and
   c) the job and workplace conditions in which the respirator is used.

Respirator User’s Health Conditions (check YES or NO box only. Do not specify)
   a) Some conditions can seriously affect your ability to safely use a respirator. Do you have or do you experience any of the following, or another condition that may affect respirator use?  □ YES □ NO
      Shortness of breath  Breathing difficulties  Chronic Bronchitis
      Lung disease  Chest pain on exertion  Heart Problems
      Hypertension  Cardiovascular disease  Severe Allergies
      Neuromuscular disease  Fainting spells  Seizures
      Panic attacks  Hearing impairment  Asthma
      Claustrophobia/fear of heights  Pacemaker  Emphysema
      Diabetes  Reduced sense of smell  Skin conditions
      Other condition(s) affecting respirator use: ________________________________________

   b) Have you had previous difficulty while using a respirator?  □ YES □ NO
   c) Do you have any concerns about your future ability to use a respirator safely?  □ YES □ NO

A “YES” answer to ‘a’, ‘b’ or ‘c’ indicates further assessment by a health care professional is required prior to respirator use. Note: Medical information is NOT to be offered on this form.

Limitations/Restrictions:
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

________________________________________________________
Signature of Respirator User ____________________________  Date ____________________________  Supervisor’s initials ___________
Health Care Assessment (required if a “yes” answer to ‘a’, ‘b’, or ‘c’ in Health Conditions above)

Respirator use permitted? □ YES □ NO
Restrictions □ YES □ NO
List restrictions

Comments

Name of Physician (please print) ___________________________ Date ___________ Signature of Physician ___________________________

If a medical assessment is required the respirator user will obtain the necessary medical information and provide this to Health, Safety & Environment (HSE) to be maintained on the employee’s personnel file.

Please Return Completed Form to HSE
Respiratory Protection Procedures

Fit Testing Record

Date: _____ / _____ / ______

Respirator User Name: ___________________________

(please print)

Type of Respirator: Model _______________
Size _______________

Fit Test Method: Qualitative [ ] Quantitative [ ]

Limitations/Restrictions: 
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
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*The respirator must form a tight seal with the face. The employee must be clean shaven prior to donning the respirator and any eyeglasses, PPE, etc. must not interfere with an effective seal to the facial skin.

Name of Person Performing Test:

____________________________________       __________________________

(please print)                        Signature

Date: _____ / _____ / ______          Expires: _____ / _____ / ______

    dd  mmm  yyyy                      dd  mmm  yyyy

Employee/Student Signature:________________________  Supervisor Signature:________________________
# Hazard Assessment for Respirator Use Checklist

Assessment Performed by: ____________________________

Date of Assessment: __________________________________

Location of Respirator Use: ____________________________

## Hazards that may be present:

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>EXPLANATORY NOTES</th>
<th>METHOD OF TEST</th>
<th>EFFECTS OF HAZARD</th>
<th>EXAMPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen Deficient Environment</td>
<td>Deficiency - Acceptable breathing air contains between 19.5%-23.4% oxygen Air containing less than acceptable amounts of oxygen is a hazardous atmosphere.</td>
<td>Oxygen detection monitor.</td>
<td>Could result in slowing down of pulse rate, disorientation, unconsciousness, death.</td>
<td>Oxygen (O2) deficiency can be caused by displacement by other gases, or by biological or chemical reactions (rusting, burning).</td>
</tr>
</tbody>
</table>
| Toxic Gases, Vapour           | Testing with appropriate detection equipment shall be undertaken to determine the presence of toxic gas(es) to create and maintain a safe environment. | Monitors - specific testers must be used for specific toxic gases, e.g., H2S monitoring. It may be necessary to disturb residue / sludge to allow for release of toxic gases / vapours. | Can cause euphoria / disorienting effect, drowsiness, headaches, weakness, injury, disability, death. | 1. Carbon Monoxide (CO) - colorless, odorless, tasteless and very poisonous. Commonest source - internal combustion engines and decomposition of organic matter.  
2. Carbon Dioxide (CO2) - Odorless. It is a heavy gas that can concentrate at lowest levels. It displaces oxygen and does not diffuse or mix readily with air.  
4. Hydrogen Sulphide (H2S) - deadly gas commonly found in sewers, manure pits. Produced by decomposition of organic matter. Has a typical rotten egg odor, but higher amounts can kill the sense of smell. |
| Fumes, Dusts, Mists, Fogs     | These hazards are usually recognized visually          | Monitors - Testers specific for each fume, dust, mist, fog must be used. | Explosion, disability, injury, burns, irritation, death poisoning              | 1. Fumes - From asphalt, welding, acid fumes from washing process  
2. Dust - Grain dust, sand blasting (silica)  
3. Mist - Spray application |
<table>
<thead>
<tr>
<th>HAZARD</th>
<th>EXPLANATORY NOTES</th>
<th>METHOD OF TEST</th>
<th>EFFECTS OF HAZARD</th>
<th>EXAMPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke</td>
<td>Smoke is a combination of gases, vapours, fumes and dusts</td>
<td>Visual - Use appropriate detection (monitoring) equipment to determine presence of toxic agent(s)</td>
<td>All effects of gases, dusts, vapours, mists, fumes</td>
<td>Result of combustion, e.g. burning materials, smoke from welding</td>
</tr>
<tr>
<td>Biological Agents</td>
<td>Biological agents are found in a variety of locations. Extreme care should be taken when working near health care facilities or industrial processes using biological agents. Conscientious personal hygiene is essential.</td>
<td>Testing for presence of biological agents is very difficult. If type of agent(s) is known, then specific testing may be done.</td>
<td>Ill health, disease, disorders, irritation, death.</td>
<td>1. Bacteria and viral infection.</td>
</tr>
<tr>
<td>Asbestos</td>
<td>Location of Asbestos at the University has been mapped. Care should be taken to avoid damaging asbestos containing surfaces. When damage is apparent, air test and repairs or guarding is needed before work continues.</td>
<td>Visual Inspection by Competent person. Where damage detected, Air Test by competent person</td>
<td>Carcinogen</td>
<td>Pipe insulation Ceiling spraytex</td>
</tr>
</tbody>
</table>

List specific atmospheric hazard(s) existing or possible which require respirator use:

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

Determine type(s) of respirator appropriate for use in the hazardous atmospheres:

- [ ] Supplied Air Respirator
- [ ] Air Purifying Respirator: Cartridge Type: ________________
- [ ] Particulate Respirator: NIOSH Rating: ______ N____ R____ P95
  ______ N____ R____ P99
  ______ N____ R____ P10