

Occupational Health and Safety Programs



Emergency Showers and Eyewash

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1.0 PURPOSE

This program has been developed to provide the minimum requirements for installation, training, use and maintenance of emergency eyewash and emergency shower equipment. All areas where a worker (employee or student) may be exposed to materials harmful to mucous membranes, skin or body must have immediate access to equipment appropriate for the potential level of exposure, and the users must be trained in use of the equipment.

2.0 SCOPE

This program applies to all persons whose work or study requires emergency equipment including eyewashes, eye/face washes, emergency showers, combination eyewashes and showers, personal wash units and drench hoses at StFX in compliance with Part 23 of the Nova Scotia Occupational Safety General Regulations.

3.0 RESPONSIBILITY

3.1 Managers and Supervisors

- a) Must know, understand and comply with the applicable components of this program to facilitate the protection of the health and safety of workers.
- b) Ensure that a hazard assessment is performed in their area to identify emergency eyewash and shower requirements and apply the hierarchy of controls, i.e. engineering controls (e.g. fume hoods and biosafety cabinets), administrative controls or personal protective equipment (e.g. safety glasses, goggles, and face shields).
- c) Ensure workers are aware of the location of and are trained in the proper use of emergency eyewashes and showers and document such training.
- d) Ensure the unobstructed access to emergency eyewashes and showers is maintained, and that equipment is maintained.
- e) Ensure that eyewash stations and emergency showers are inspected and flushed in accordance with this program.
- f) Submit a Facilities Management work request for emergency shower and eyewash stations not operating properly, and ensure all deficiencies are corrected.

3.2 Workers, including Employees and Students

- a) Must know, understand and comply with the applicable components of this program as well as any additional requirements set by their supervisor

3.3 Facilities Management

- a) Apply the University standards (as set out in Section 8 of this document) for the design, selection, purchase, installation and commissioning of emergency eyewashes and showers.
- b) Conduct annual performance testing on eyewashes and showers as per the ANSI Standard Z358.1 and retain records (Maintenance).
- c) Repair emergency eyewashes and showers and retain records (Maintenance).

- d) In conjunction with Occupational Health and Safety, investigate operational deficiencies and make recommendations regarding eyewash and emergency shower equipment.

3.4 Occupational Health and Safety

- a) Provides information on appropriate legislation, codes, standards and best practices for the selection and installation of emergency eyewashes and showers.
- b) Coordinates hazard assessments for new equipment.
- c) Assists users in obtaining repairs or service when service requests are not completed within a reasonable period.
- d) Coordinate monthly flushing of showers and eyewash units that require cleanup.
- e) Development and maintenance of this document.

4.0 REFERENCES

- a) ANSI Standard Z358.1 (current version)
- b) Canadian Centre for Occupational Health and Safety:
https://www.ccohs.ca/oshanswers/safety_haz/emerg_showers.html
- c) University of Toronto, Emergency Eyewash and Shower Standard
- d) University of Calgary, Emergency Eyewash and Shower Standard
- e) University of Lethbridge, Emergency Eyewash and Shower Standard

5.0 DEFINITIONS

- **ANSI** - The American National Standards Association.
- **Combination Unit** - Emergency equipment which includes shower and eyewash and is supplied by a single source of flushing fluid.
- **Drench Hoses** - A device that consists of a flexible hose connected to a flushing fluid supply and used to provide fluid to irrigate and flush face and body areas. A drench hose is considered a “supplemental device” under ANSI Z358, and is thus not a substitute for a shower.
- **Emergency Eyewash** - A device that provides fluid to irrigate and flush the eyes.
- **Emergency Shower** - A device designed to deliver flushing fluid to the entire body, in sufficient volumes.
- **Personal Eyewash** - A squeeze bottle filled with flushing liquid. Personal eyewashes are not to be used as the primary eyewash in a permanent workplace. They are only to be used in situations where no plumbed eyewash is available, or as an immediately available first flush before proceeding to the plumbed eyewash.
- **Potable Water** - Water that is suitable for drinking.

- **Self-Contained Eyewash Station** - A station where eyewash bottle(s) and/or a supplemental eyewash facility are located to enable initial and/or supplemental flushing of the eye(s) and surrounding facial area.
- **Tepid Water** - Lukewarm; moderately warm.
- **Worker** – Person who is exposed to hazard and may be a student or employee.

6.0 PROCEDURE

6.1 Installation

- a) All installations of emergency showers and eyewashes must comply with the specifications of the current version of the ANSI Z358.1 Standard and this program.
- b) The need for emergency equipment in a work area is determined by completing a Hazard Assessment in consultation with Occupational Health and Safety.
- c) Eyewash stations and showers shall be located within 10 seconds walking distance. For strong acids and caustics, the eyewash shall be no more than 10 unobstructed feet away from the work area.
- d) The path to the eyewash station or shower shall be free of obstructions and shall be mounted in a way such that it can be accessed by people of all physical sizes.
- e) The area of the eyewash and shower shall be well lit, well signed and clear of obstructions.
- f) Installations of eyewashes or showers shall be installed with plumbing for tepid water.

6.2 Training

- Site-specific training is to be provided by the supervisor and documented on the worker's training record. Training must include:
 - a) Location of emergency equipment.
 - b) Instructions regarding activation of emergency equipment.
 - c) Demonstration regarding activation of emergency equipment (eyewash station only, where practicable), that does not create additional hazards by such activation (e.g. demonstrate use of eyewash where water is contained and drained).
 - d) Instruction that eyelid(s) are to be held open with the hands while the eyes and face are still in the flow of water.
 - e) Perform eye irrigation by introducing water at the inner corner of the eye – adjacent to the nose – and letting it run across the eye to the outer edge.

(See instructions on how to use and eyewash and emergency shower on Appendix I.)

7.0 MAINTENANCE, FLUSHING AND INSPECTION

It is essential to maintain the emergency equipment to ensure its proper function in case of an emergency. Thus, the equipment shall be maintained according to the manufacturer's instructions and applicable standards. In addition, the following shall be done to maintain the units:

7.1 Weekly Inspection/Flushing: Emergency Eyewash

(RESPONSIBLE: END USER ASSIGNED BY AREA SUPERVISOR -Checklist in Appendix II)

- a) Ensure that the path to the eyewash is easily accessible and is not obstructed.
- b) Verify that nozzle caps are in place to prevent contamination and that the nozzles, nozzle caps, and bowl/sink are clean and sanitary.
- c) Actuate valve to fully open position. Water must flow within 1 second.
- d) Verify that nozzle caps come off when the eyewash is activated.
- e) Verify that water continues to flow until manually turned off and that the flow stays on without requiring the use of the operator's hands.
- f) Put your hand in the stream of the water to ensure that it is tepid; not too cold or too hot.
- g) Look at the flow pattern of the eyewash. It shall provide a gentle non-injurious flow. Water streams shall flush both eyes simultaneously.
- h) Flushing of the system shall be conducted for 10 seconds. The time required could be as little as 10 seconds or as much as three minutes (the ANSI specified time).
- i) Water in self-contained eyewash and eye/face wash stations must be replaced with fresh potable water regularly. Follow the manufacturer's recommendations for functionality tests and solution replacement when a preserved solution is used in these units.
- j) Report any problems to Facilities Management by submitting a work request.
- k) Emergency Eyewash Inspection Logs will be used to document eyewash inspection and flushing. The logs shall be maintained for two years by Supervisors and PIs in their respective areas of responsibility.
- l) NOTE that the Chief Power Engineer or designate will perform this function for the units in the CHP and Keating Centre.

7.2 Monthly Maintenance: Emergency Showers

(RESPONSIBLE: CONTRACTOR – See Checklist in Appendix III)

- a) Ensure that the path to the shower is easily accessible and is not obstructed.
- b) Actuate valve to fully open position. Water must flow within 1 second.
- c) Verify that water continues to flow until manually turned off and that the flow stays on without requiring the use of the operator's hands.
- d) Put your hand in the stream of the water to ensure that it is tepid; not too cold or too hot.
- e) Shower shall provide a wide enough water stream to cover the whole body.
- f) Flushing of the system shall be conducted for 10 seconds - as long as is needed to empty the pipe of stagnant water. The time required could be as little as 10 seconds or as much as three minutes (the ANSI specified time).
- g) Wipe up any water left on the floor.
- h) Report any problems to Facilities Management by submitting a work request.
- i) Emergency Shower Inspection Logs will be used to document shower inspection and flushing.
- j) Wet floor sign will be left in area of flushing.
- k) Users will contact FM to clean up any mess after flushing. Custodial to report excessive dripping to FM by workorder.
- l) NOTE that the Chief Power Engineer or designate will perform this function for the units in the CHP and Keating Centre.

7.3 Annual Maintenance: Emergency Showers and Eyewash

(RESPONSIBLE: MAINTENANCE)

- a) All emergency showers and eyewashes shall be inspected annually by Facilities to assure conformance with ANSI Z358.1 Standard (annual performance testing).
- b) Central records shall be kept by Facilities Management to verify compliance. A tag indicating testing shall be affixed to the equipment.

8.0 DETAILED INSTALLATION, OPERATION AND DESIGN

8.1 Emergency Eyewash Specifications

- a) In accordance with the guidelines of ANSI Z358.1, such eyewash equipment shall ensure that a controlled flow of potable water is provided to both eyes simultaneously at a velocity low enough not to injure the user.
- b) The eyewash units shall have dual nozzle sprays.
- c) Dust covers or protection devices shall protect the nozzles that are supplied with the eyewash in place; they prevent dust and debris from falling inside the eyewash heads and potentially entering the eyes when the unit is turned on.
- d) The dust covers shall be automatically removed by actuation of the valve.
- e) The plumbed eyewash unit shall be capable of delivering 1.5 L of water per minute (0.4 gallons per minute) for at least 15 minutes continuously.

- f) The eyewash unit shall deliver tepid (lukewarm) water. The temperature of water shall at least be 15.5°C (60°F) to prevent causing hypothermia or early cessation of flushing. New installations of eyewashes shall be installed with plumbing for tepid water.
- g) The valve shall be large enough to be easily located and operated by the user; it shall go 'off' to 'on' in less than one second. Control valves shall be resistant to corrosion from potable water.
- h) Manual or automatic actuators shall be easy to locate and operate by touch.
- i) The eyewash units shall be installed and designed in such a manner that they do not require users' hands to operate upon activation and allow both eyelids to be opened using both hands.
- j) The unit shall be located to provide enough room to allow the eyelids to be held open with the hands while the eyes are in the water stream.
- k) The emergency eyewash station shall be identified with a highly visible sign. There shall be no sharp projections or electrical hazards anywhere in the operating area of the unit. It shall be ensured that the path leading to the emergency eyewash is clear of obstruction and that the immediate area is neat and easily accessible.

8.2 Emergency Shower Specifications

- a) In accordance with the guidelines of ANSI Z358.1, the safety shower shall be able to supply a controlled flow of potable water, delivering 75.7 litres per minute (20 gallons per minute).
- b) The shower unit shall deliver water tepid (lukewarm) water upon activation. The temperature of water shall at least be 15.5°C (60°F) to avoid causing hypothermia to the user.
- c) The control valve shall operate in less than one second upon its activation and must remain 'on' without the use of worker's hand, until it is intentionally shut off. This allows the injured worker to remove the contaminated clothing.
- d) The valve shall be large enough to be easily located and operated by the user; the actuators must not be located more than 1.7 m (69 inches) above the surface where user stands.
- e) The spray pattern of shower shall have a diameter of 0.51 m (20 inches) at 1.53 m (60 inches) above the surface on which the injured worker stands.
- f) The centre of the shower spray pattern shall be located at least 0.41 m (16 inches) from any obstructions, protrusions, or sharp objects.
- g) The emergency shower must be installed with the showerhead not less than 2.08 m (82 inches) or more than 2.44 m (96 inches) from the surface on which the user stands. If a shower enclosure is used, it shall provide a minimum unobstructed area of 0.87 m (34 inches) in diameter.
- h) Equipment shall be located away from electric outlets and appliances so there is no possibility of an electrical shock.

8.3 Emergency Eyewash Installation

- a) The preferred eyewash installations are either the pull down or paddle on type. They can be by the sink or standalone. The drench hose type eyewash is acceptable as a supplement, but in service it is not specified as the primary eyewash except in grandfathered situations. This is due to the greater potential for the eyewash to be hidden by clutter.
- b) Equipment shall be installed in compliance with the latest version of the ANSI Standard Z 358.1 and the manufacturer's instructions. Upon installation, equipment shall be tested for leaks.
- c) Plumbed eyewash unit must be installed in accessible location that an injured person can reach in 10 seconds or less which is equivalent to roughly 55 unobstructed feet from the hazard.
- d) When acids or strong caustics/corrosive are used, equipment shall be located within 10 feet of the work area and have unrestricted access to a well-lit area.
- e) The unit shall be located on the same level as the hazard and the path of travel must be free of obstructions that may inhibit the immediate use of the equipment. A door is considered to be an obstruction. If the hazard is not a corrosive, one intervening door can be present between the hazard and emergency equipment so long as the door opens in the same direction of travel as the person attempting to reach the emergency equipment; and/or the door does not lock to impede access to eyewash station.
- f) Eyewash locations shall be identified with highly visible signs and the areas shall be well lit, and free of obstructions and projections.
- g) There must be a proper drainage system present near the eyewash unit; this will minimize any potential of contamination to surface or groundwater.
- h) Eyewashes shall be mounted so that water nozzles are not less than 0.84 m (33 inches) and no greater than 1.15 m (45 inches) from the surface/ floor on which the user stands.
- i) The eyewash must be, at least, 0.15 m (6 inches) away from the wall or any other obstruction.
- j) Equipment piping that is located in areas exposed to potential freezing temperatures shall be insulated or protected with appropriate material(s).
- k) If feasible, the units should be located so one person can use both the eyewash and shower at the same time.
- l) Drench hoses may supplement, but they cannot replace the eyewash unit. A drench hose requires the use of at least one hand, rendering it impossible to hold both eyelids open simultaneously.
- m) Personal or portable eyewash equipment shall only be used where there is no access to plumbing, or where a personal eyewash unit is to be used as a first wash before proceeding to the eyewash station.

8.4 Emergency Shower Installation

- a) The emergency shower shall be installed in compliance with the latest version of ANSI standard Z 358.1 and the manufacturer's instructions. Upon installation, equipment must be tested for leaks and proper functioning.
- b) Emergency showers shall be located in accessible locations that require no more than 10 seconds to reach and shall be located on the same level as the potential chemical or biological hazard.
- c) Shower locations shall be identified with highly visible signs and the areas shall be bright, well lit, and free of obstructions and projections.
- d) The shower shall supply water at a minimum rate of 75.7 Liters per minute (20 gallons per minute) for a period of at least fifteen minutes.
- e) If the equipment piping is located in areas which are exposed to potential freezing temperatures, then it shall be insulated or protected with appropriate material(s).
- f) For new installations there must be a proper drainage system present near the shower; this will minimize any potential for contaminating the surface or groundwater. The drain must have a dyke around it to prevent spills from accidentally leaking down the drain. The shower must be located such that the dyke will not present a tripping hazard in everyday use.
- g) For new installs the floor under the shower shall be non-slip.
- h) Combination units with showers with eye and eye/face wash may be installed where feasible. The combination units shall be connected to a system capable of supplying adequate flushing fluid to meet the requirements of each component when all components are operated simultaneously. Combination units will be positioned so they can be used simultaneously by the user under the shower.

Appendix I Using an Emergency Eyewash or Shower

How to use an Emergency Eyewash

1. Open water supply fully.
2. Place eyes in water stream.
3. Hold both eyelids open with your fingers.
4. Have someone call for appropriate medical attention.
5. Rinse until the time specified on the SDS has been reached (if necessary, have a colleague look up the appropriate time and then time you).
6. Workers who might be exposed to splashes of hazardous materials have to be instructed by their supervisors in the proper use of personal protective equipment, emergency showers, and eyewash equipment.

How to use an Emergency Shower

1. Open water supply fully.
2. Stand in the water stream.
3. Remove all contaminated clothing. Typically, undergarments would not be contaminated.
4. Have a colleague call for appropriate medical attention.
5. Rinse until the time specified on the SDS has been reached (if necessary, have a coworker look up the appropriate time and then time you).
6. Workers who might be exposed to splashes of hazardous materials have to be instructed by their supervisors in the proper use of personal protective equipment, emergency showers, and eyewash equipment.

Appendix II
Weekly Activation of Emergency Eyewashes
Performed by End User (assigned by Area Supervisor)


- Ensure that the path to the eyewash is easily accessible and is not obstructed.
- Verify that nozzle caps are in place to prevent contamination and that the nozzles, nozzle caps, and bowl/sink are clean and sanitary.
- Actuate valve to fully open position. Water must flow within 1 second.
- Verify that nozzle caps come off when the eyewash is activated.
- Verify that water continues to flow until manually turned off and that the flow stays on without requiring the use of the operator's hands.
- Put your hand in the stream of the water to ensure that it is tepid; not too cold or too hot.
- Look at the flow pattern of the eyewash. It shall provide a gentle non-injurious flow. Water streams shall flush both eyes simultaneously.
- Flushing of the system shall be conducted for 10 seconds. The time required could be as little as 10 seconds or as much as three minutes (the ANSI specified time).
- Water in self-contained eyewash and eye/face wash stations must be replaced with fresh potable water regularly. Follow the manufacturer's recommendations for functionality tests and solution replacement when a preserved solution is used in these units.
- Report any problems to Facilities Management by submitting a work request.
- Emergency Eyewash Inspection Logs will be used to document eyewash inspection and flushing

Appendix III
Monthly Activation of Emergency Showers
Performed by Contractor

- Ensure that the path to the shower is easily accessible and is not obstructed.
- Actuate valve to fully open position. Water must flow within 1 second.
- Verify that water continues to flow until manually turned off and that the flow stays on without requiring the use of the operator's hands.
- Put your hand in the stream of the water to ensure that it is tepid; not too cold or too hot.
- Shower shall provide a wide enough water stream to cover the whole body.
- Flushing of the system shall be conducted for 10 seconds. The time required could be as little as 10 seconds or as much as three minutes ({the ANSI specified time}).
- Wipe up any water left on the floor.
- Report any problems to Facilities Management by submitting a work request.
- Emergency Shower Inspection Logs will be used to document shower inspection and flushing

**Appendix IV
Weekly Emergency Eyewash Inspection/Flushing Log**

3.5 x 6" inspection tag/sticker for eyewash

User Eyewash Inspection Log				
	WEEK 1	WEEK 2	WEEK 3	WEEK 4
	Date: Inspected by:	Date: Inspected by:	Date: Inspected by:	Date: Inspected by:
JAN				
FEB				
MAR				
APR				
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

Location:

For Maintenance Issues, please contact:
Facilities Management: 902-867-2149
 In the Case of Emergency, please contact:
StFX Safety and Security: 902-867-4444

Appendix V
Monthly and Yearly Emergency Showers Inspection/Flushing Log
Yearly Eyewash Inspection/Flushing Log

ST. FRANCIS XAVIER
UNIVERSITY

INSPECTED BY:

	YR.	YR.	YR.
JAN			
FEB			
MAR			
APR			
MAY			
JUN			
JUL			
AUG			
SEP			
OCT			
NOV			
DEC			

If not inspected contact OHS

7.0 SUPPLEMENTARY DOCUMENTS

- Weekly Eyewash Activation Checklist
- Monthly Shower Activation Checklist
- Annual Performance Inspection Checklist
- Facilities Management Maintenance Records
- Inventory of Emergency Showers and Eyewash

REVISION SUMMARY		
DATE	REVISION	SUMMARY
0	1 Dec 23	New Program

INVENTORY OF EQUIPMENT

BUILDING	LOCATION	EQUIPMENT	DESCRIPTION
Nasso	1047	SHOWER	GBF1672 series shower
Nasso	1047	EYEWASH	Swing-down eyewash recessed
Nasso	1050	SHOWER	GBF1670 series shower
Nasso	1050	EYEWASH	Swing-down eyewash recessed
Nasso	1050	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	1062	SHOWER	GBF1670 series shower (in stall)
Nasso	1062	EYEWASH	Swing-down eyewash recessed (in stall)
Nasso	1080	EYEWASH	Swing-down eyewash recessed
Nasso	1080	SHOWER	GBF1670 series shower
Nasso	2010	SHOWER	GBF1670 series shower
Nasso	2010	SHOWER	GBF1670 series shower
Nasso	2010	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2010	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2010	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2010	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2015	SHOWER	GBF1670 series shower
Nasso	2015	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2016	SHOWER	GBF1670 series shower
Nasso	2016	EYEWASH	Swing-down eyewash recessed
Nasso	2024	SHOWER	GBF1670 series shower
Nasso	2024	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2037	SHOWER	GBF1670 series shower
Nasso	2037	SHOWER	GBF1670 series shower
Nasso	2037	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2037	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	2051	SHOWER	GBF1670 series shower
Nasso	3006	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3006	SHOWER	GBF1670 series shower
Nasso	3010	SHOWER	GBF1670 series shower
Nasso	3010	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3017	SHOWER	GBF1670 series shower
Nasso	3017	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3018	SHOWER	GBF1670 series shower
Nasso	3018	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3023	SHOWER	GBF1670 series shower
Nasso	3023	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3037	SHOWER	GBF1670 series shower
Nasso	3037	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3037	EYEWASH	G5022 deck mount style eyewash drench hose

Nasso	3049	SHOWER	GBF1670 series shower
Nasso	3049	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3050	SHOWER	GBF1670 series shower
Nasso	3050	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3066	SHOWER	GBF1670 series shower
Nasso	3066	EYEWASH	G5022 deck mount style eyewash drench hose
Nasso	3066	EYEWASH	G5022 deck mount style eyewash drench hose
CHP	CHP	SHOWER	Vertical 30 gpm
CHP	CHP	DRENCH	
KEATING	ICE PLANT	SHOWER	8300 Series
KEATING	ICE PLANT	EYEWASH	eye-face wash with foot pedal activation
KEATING	POOL	SHOWER	8300 Series
KEATING	POOL	EYEWASH	eye-face wash with foot pedal activation
Brown	116	EYEWASH	G1849 series swing down eyewash
Brown	120	EYEWASH	G1895 series swivel eyewash
Brown	218	EYEWASH	G1814 Series wall mount eyewash
Brown	226	EYEWASH	G1849 Series swing down eyewash
Brown	227	EYEWASH	G1849 Series swing down eyewash
Brown	229	SHOWER	G1658 series shower
Brown	229	EYEWASH	GBF1735DP recessed wall mount eye-face wash
Brown	231	EYEWASH	G1849 Series swing down eyewash
Brown	313	EYEWASH	G1849 series swing down eyewash
Brown	314	EYEWASH	G6022 series eyewash drench hose
Brown	320	EYEWASH	G5022 series eyewash drench hose
Brown	330	SHOWER	G1658 series shower
Brown	330	EYEWASH	G1849 swing down eyewash
Brown	409	EYEWASH	G1849 series swing down eyewash
Brown	411	EYEWASH	G1849 series swing down eyewash
Brown	413	EYEWASH	G1895 series swivel eyewash
Brown	423	EYEWASH	G5022 series eyewash drench hose
Brown	327B	EYEWASH	G1895 series swivel eyewash
Brown	337D	EYEWASH	G1849 series swing down eyewash
#7 Garage	Paint area	SHOWER	
#7 Garage	Paint area	EYEWASH	