

Procedures for Periodic Testing of Emergency Shower Units

Equipment

- ◆ Plastic pail with at least 25-litre capacity
- ◆ Plastic shower curtain and duct tape
- ◆ Timer
- ◆ Trolley
- ◆ Mop

Procedures

- a) Using permanent marker, make graduation marks on the water pail at 5-, 10-, 15-, 20- and 25-litre level.
- b) Use shower curtain to wrap around the shower head and carefully, secure the curtain around the shower head with duct tape. Lower the other end of the shower curtain into the plastic pail.
- c) Check the plastic shower curtain again to ensure that all water flowing down will be collected into the pail.
- d) Turn the shower fully on and using the timer, count 15 seconds and then, turn off the shower.
- e) Using the graduation mark on the side of the plastic pail, estimate the volume of water collected and record the results.
- f) Multiply the collected water volume by 4 to obtain the calculated flow per minute.
- g) If there is water on the floor clean up the area with mop to prevent slippery.

Outcome

- 1) The volume of water flow is considered acceptable if it is capable to deliver 75.7 litres per minute (20 US gallons per minute) or more, and no further adjustment is required.
- 2) If the volume of water flow is below the required flow, adjustment of the shower system is required.
- 3) Any adjustment on the emergency shower and the water supply system must be performed by licensed plumber.

Emergency Eyewash Stations

Equipment

- ◆ Plastic pail with at least 5-litre capacity
- ◆ Plastic hose capable of being connected to eye wash units
- ◆ Timer
- ◆ Trolley
- ◆ Mop

Procedures

- i. Using permanent marker, make graduation marks on the water pail at 0.5-, 1-, 2-, and 5-litre level.
- ii. Turn on the eyewash units to flush off residual water. Note the flushing streams rise to approximately equal heights. Turn off the unit.
- iii. Use plastic hoses to connect both of the eye wash caps. Lower the other end of the hoses into the plastic pail.
- iv. Turn the eye wash unit fully on and using the timer, count 0.5 minute and then turn off the unit.
- v. Using the graduation mark on the side of the plastic pail, estimate the volume of water collected and record the results.
- vi. Obtain the flow per minute.
- vii. If there is water on the floor clean up the area with mop to prevent slippery.

Outcome

- i. The volume of water flow is considered acceptable if it is capable to deliver 1.5 litres per minute (0.4 US gallons per minute) or more, and no further adjustment is required.
- ii. If the volume of water flow is below the required flow, adjustment of the eye wash unit is required.
- iii. Any adjustment on the emergency eyewash unit and the water supply system must be performed by licensed plumber.