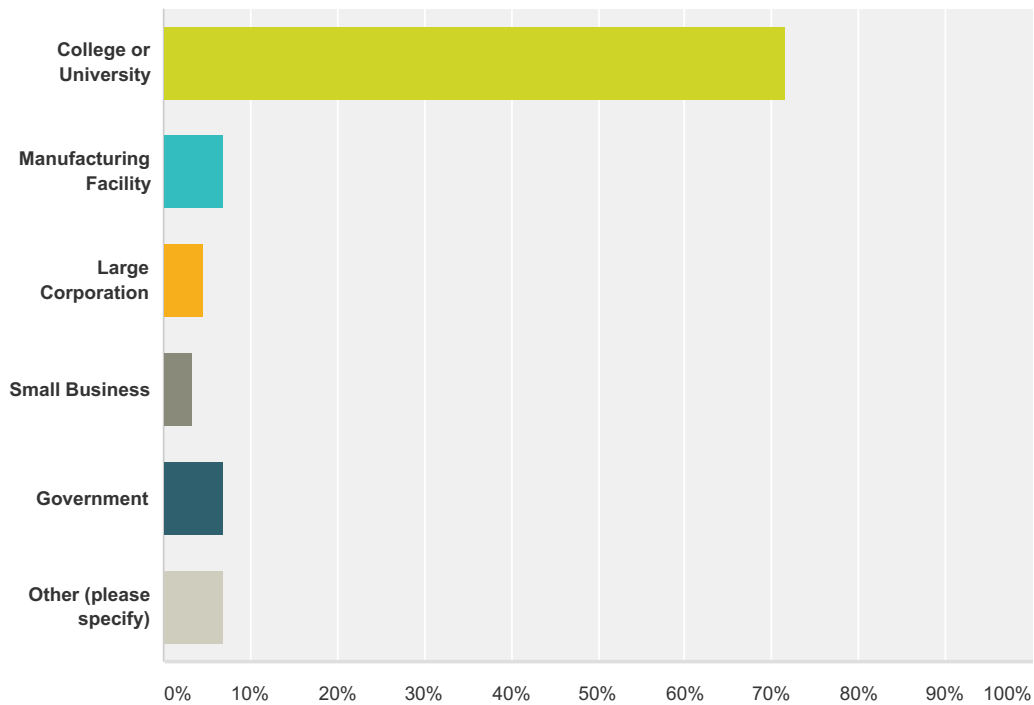


### Q1 What type of organization do you represent?

Answered: 88 Skipped: 0



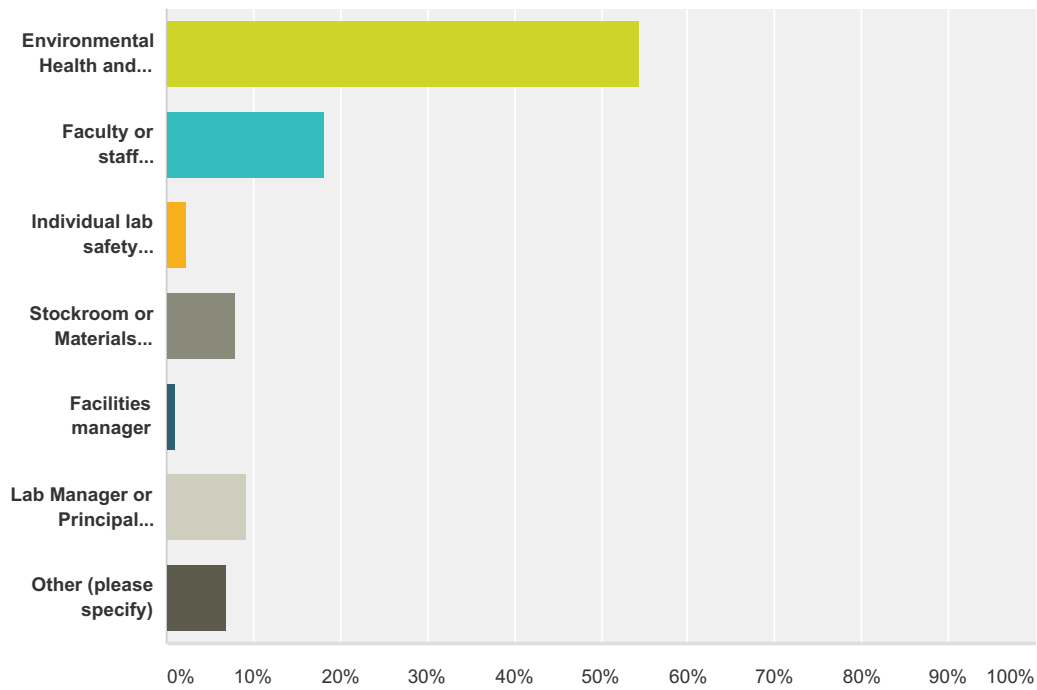
Answer Choices	Responses
College or University	71.59% 63
Manufacturing Facility	6.82% 6
Large Corporation	4.55% 4
Small Business	3.41% 3
Government	6.82% 6
Other (please specify)	6.82% 6
<b>Total</b>	<b>88</b>

#	Other (please specify)	Date
1	Retail distributor of safety equipment; former professor	11/18/2016 2:41 PM
2	Independent School, k-12	11/14/2016 8:11 AM
3	healthcare facility	11/13/2016 7:24 PM
4	independent High School	11/10/2016 10:47 AM
5	BioPharma R and D Facility	11/10/2016 10:43 AM
6	Consulting Engineers - work in a wide variety of facilities	11/10/2016 10:42 AM

# Emergency Shower and Eyewash Feedback

## Q2 Please indicate your role in this organization.

Answered: 88 Skipped: 0

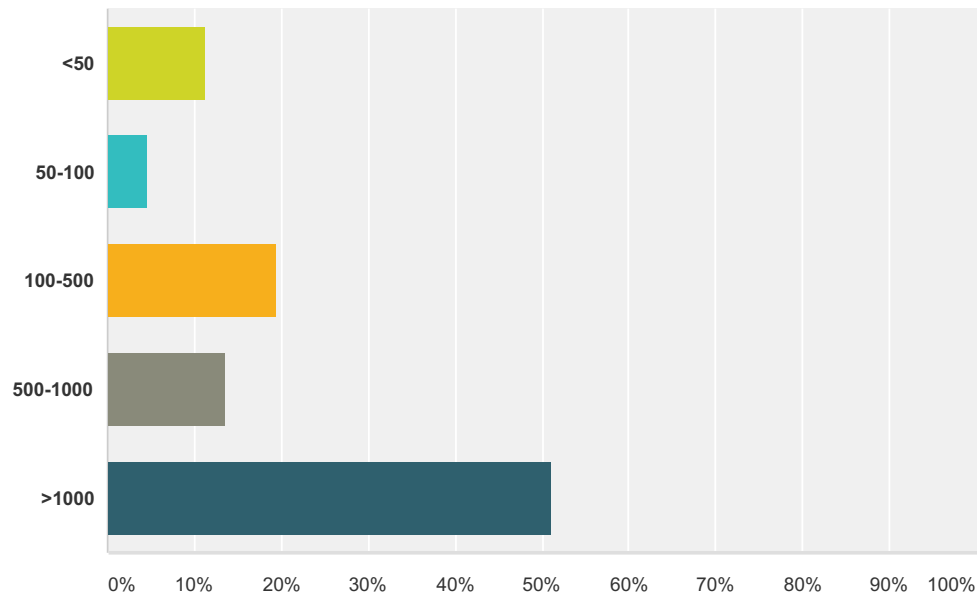


Answer Choices	Responses
Environmental Health and Safety professional	54.55% 48
Faculty or staff departmental safety coordinator	18.18% 16
Individual lab safety representative	2.27% 2
Stockroom or Materials manager	7.95% 7
Facilities manager	1.14% 1
Lab Manager or Principal Investigator	9.09% 8
Other (please specify)	6.82% 6
<b>Total</b>	<b>88</b>

#	Other (please specify)	Date
1	Owner	11/18/2016 2:41 PM
2	Director, R&D	11/18/2016 9:06 AM
3	Supply Value Chain Chemical Management Advisor	11/15/2016 5:27 PM
4	Environmental Safety and Laboratory Manager	11/14/2016 8:31 AM
5	teacher, lab manager (high school level), safety officer	11/14/2016 8:11 AM
6	CHO for college of liberal arts, and chemistry dept. stockroom manager	11/10/2016 1:13 PM

### Q3 How many employees does your organization have?

Answered: 88 Skipped: 0

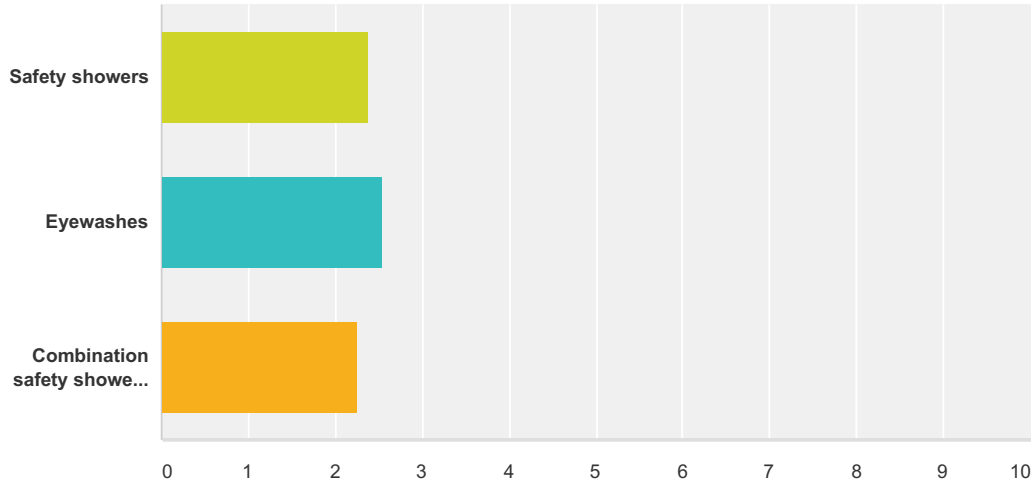


Answer Choices	Responses	Count
<50	11.36%	10
50-100	4.55%	4
100-500	19.32%	17
500-1000	13.64%	12
>1000	51.14%	45
<b>Total</b>		<b>88</b>

## Emergency Shower and Eyewash Feedback

### Q4 How many of each of these pieces of emergency equipment does your organization have?

Answered: 85 Skipped: 3



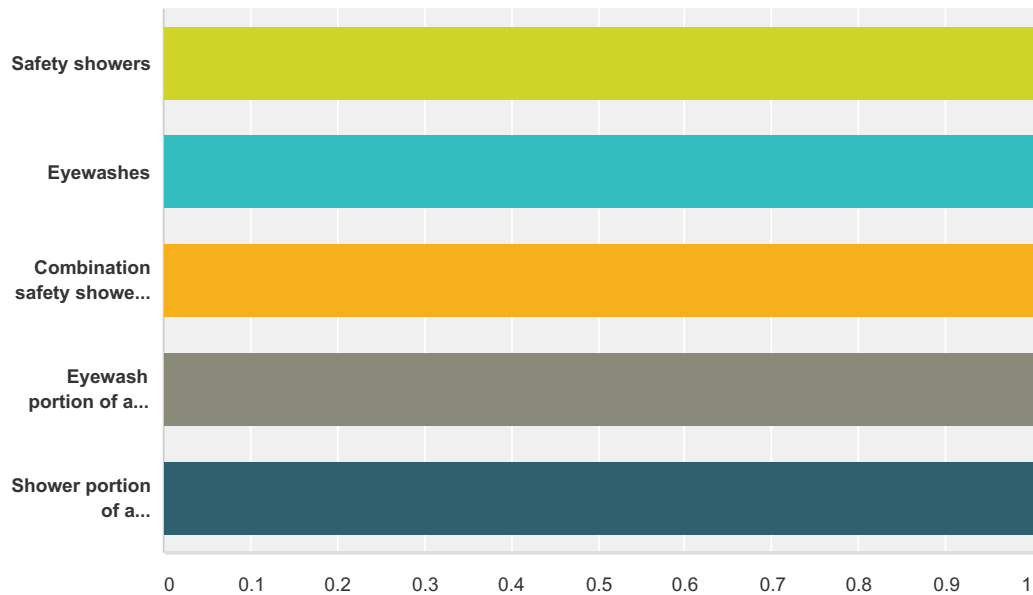
	0	less 50	50-100	100-500	more than	Total	Weighted Average
Safety showers	7.50% 6	55.00% 44	7.50% 6	13.75% 11	16.25% 13	80	2.39
Eyewashes	2.41% 2	46.99% 39	13.25% 11	16.87% 14	20.48% 17	83	2.55
Combination safety shower and eyewash units	13.58% 11	44.44% 36	12.35% 10	19.75% 16	9.88% 8	81	2.26

#	Other (please specify)	Date
1	Not applicable currently; we sell. Former university professor	11/18/2016 2:41 PM
2	Note: we have ~1000 labs, not sure how this breakdown between combo and standalone units, but all labs have some equipment inside or nearby	11/18/2016 9:30 AM
3	Most of our new labs are equiped with a drench	11/17/2016 12:31 PM
4	We monitor over 60 facilities of various types and capabilities	11/15/2016 5:27 PM
5	Dual Head Drench Hose	11/15/2016 6:36 AM
6	With very few exceptions, all showers are installed with eyewashes	11/10/2016 11:59 AM

## Emergency Shower and Eyewash Feedback

### Q5 Who conducts inspections of this equipment?

Answered: 86 Skipped: 2



	Lab occupants	Lab managers	Facility staff	Environmental Health and Safety staff	N/A	Total	Weighted Average
Safety showers	4.88% 4	20.73% 17	37.80% 31	19.51% 16	17.07% 14	82	1.00
Eyewashes	22.89% 19	24.10% 20	27.71% 23	16.87% 14	8.43% 7	83	1.00
Combination safety showers and eyewash units	8.43% 7	13.25% 11	28.92% 24	22.89% 19	26.51% 22	83	1.00
Eyewash portion of a combination unit alone	15.00% 12	16.25% 13	16.25% 13	15.00% 12	37.50% 30	80	1.00
Shower portion of a combination unit alone	6.25% 5	13.75% 11	25.00% 20	17.50% 14	37.50% 30	80	1.00

#	Other system (please specify)	Date
1	Lab occupants flash emergency eyewashes every two weeks	11/18/2016 10:43 AM
2	Student employees	11/18/2016 9:31 AM
3	Annual inspections by facility staff; oversight inspections by ESH and Lab Managers	11/18/2016 9:30 AM
4	Operations personnel	11/18/2016 8:59 AM
5	Lab Safety Manager, we have no EHS Dept.	11/18/2016 8:53 AM
6	Under constant debate, they are not flushed nor inspected as per current ANSI guidelines	11/14/2016 3:37 PM
7	during semester breaks the custodial staff does it	11/14/2016 10:49 AM
8	No system in place. If it breaks someone will report it to maintenance.	11/14/2016 9:00 AM
9	each department on campus is responsible for testing their equipment; responses indicated are for the Science department	11/14/2016 8:31 AM

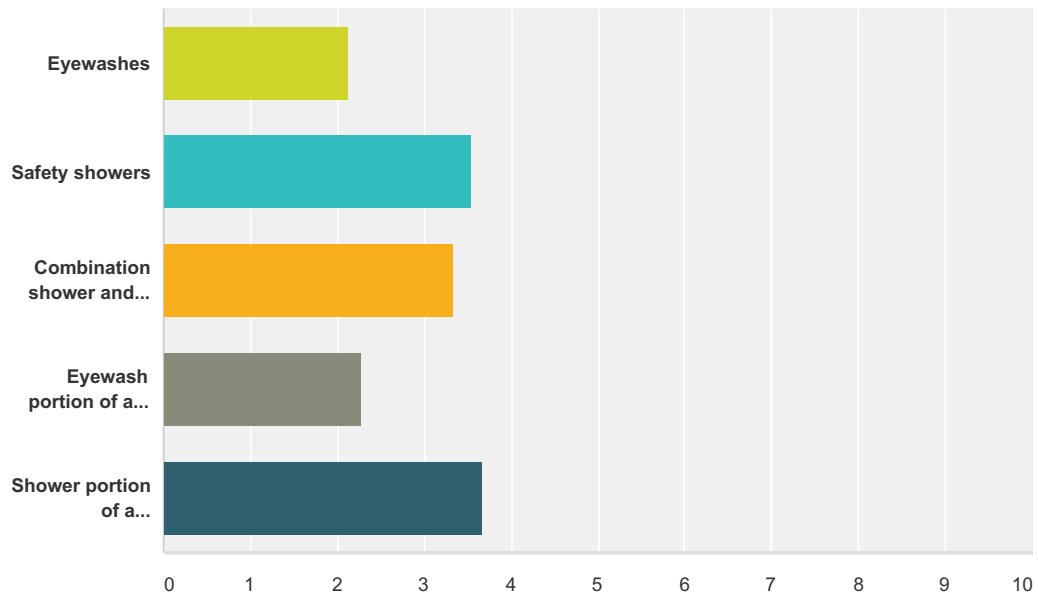
## Emergency Shower and Eyewash Feedback

10	Lab personnel check eyewashes weekly. EH&S staff checks them every 6 months, as well, because we don't think they are all checking them weekly. EH&S staff checks all showers and combo units (both parts) because we have the equipment to do so.	11/11/2016 2:56 PM
11	This is only for one science building; shower/eye wash stations in Facilities and the Art Dept fall under their control.	11/10/2016 1:13 PM
12	Lab managers= technical staff members	11/10/2016 1:11 PM
13	Facilities plumbing staff inspects eyewashes and showers to the ANSI standard annually	11/10/2016 11:59 AM
14	occupants do weekly inspection; Facility Techs do annual check for volume & temperatures	11/10/2016 11:17 AM
15	EH&S tests annually, lab occupants monthly	11/10/2016 10:44 AM
16	outsourced to competent contract firm	11/10/2016 10:43 AM

## Emergency Shower and Eyewash Feedback

### Q6 How often are these units activated to assure water flow and quality?

Answered: 87 Skipped: 1

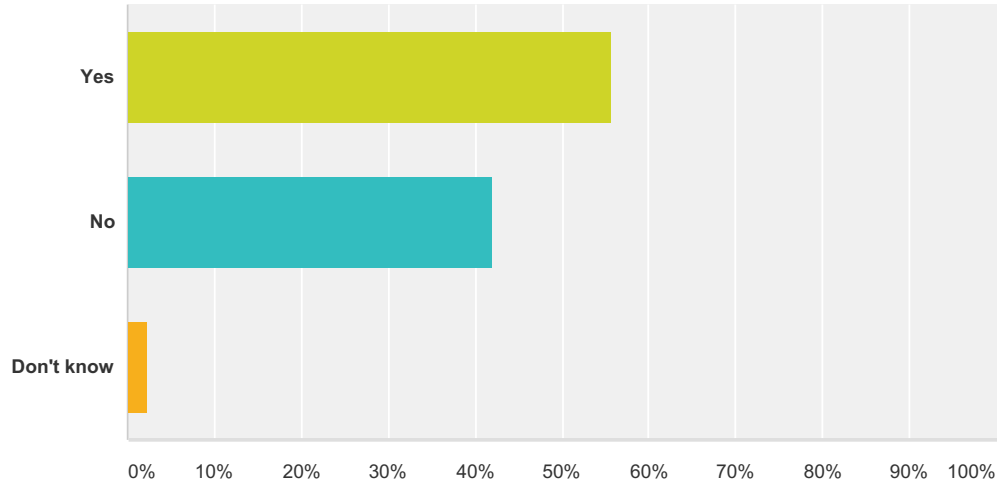


	at least weekly	not weekly, but more often than monthly	monthly	several times per year	annually	N/A	Total	Weighted Average
Eyewashes	48.24% 41	12.94% 11	18.82% 16	7.06% 6	9.41% 8	3.53% 3	85	2.13
Safety showers	12.05% 10	4.82% 4	24.10% 20	19.28% 16	28.92% 24	10.84% 9	83	3.54
Combination shower and eyewash units as a whole	13.92% 11	3.80% 3	15.19% 12	13.92% 11	20.25% 16	32.91% 26	79	3.34
Eyewash portion of a combination unit alone	37.97% 30	5.06% 4	7.59% 6	7.59% 6	11.39% 9	30.38% 24	79	2.27
Shower portion of a combination unit alone	10.13% 8	2.53% 2	13.92% 11	15.19% 12	26.58% 21	31.65% 25	79	3.67

#	Other (please specify)	Date
1	Quarterly	11/18/2016 12:10 PM
2	Labs are asked to flush sink contained systems weekly	11/18/2016 10:11 AM
3	We try for weekly, but sometimes don't achieve this	11/18/2016 9:31 AM
4	Official testing 1x per year; local flushing varies by area	11/18/2016 9:30 AM
5	Not flushed as per current guidelines.	11/14/2016 3:37 PM
6	No system in place.	11/14/2016 9:00 AM
7	Facilities staff inspect eyewashes and shower to the ANSI standard annually	11/10/2016 11:59 AM
8	These are not for flow rate only to flush for quality. Ours have never been quantitatively tested for flow rate.	11/10/2016 10:56 AM
9	these are inspected annually by EHS staff. However, the area workers do activate some of them. This is different all over campus as to how often. Eyewashes are more likely to be activated on a regular basis due to ease and no need for special equipment.	11/10/2016 10:08 AM

### Q7 Does your facility have safety showers installed in hallways outside the laboratory door?

Answered: 88 Skipped: 0

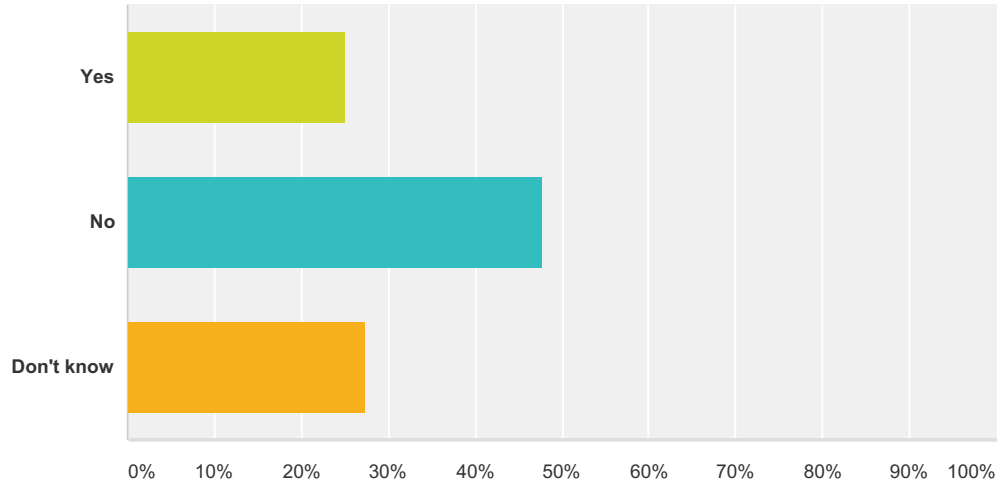


Answer Choices	Responses	
Yes	55.68%	49
No	42.05%	37
Don't know	2.27%	2
<b>Total</b>		<b>88</b>



**Q8 Does your EHS department support the installation of new safety showers in hallways outside a laboratory?**

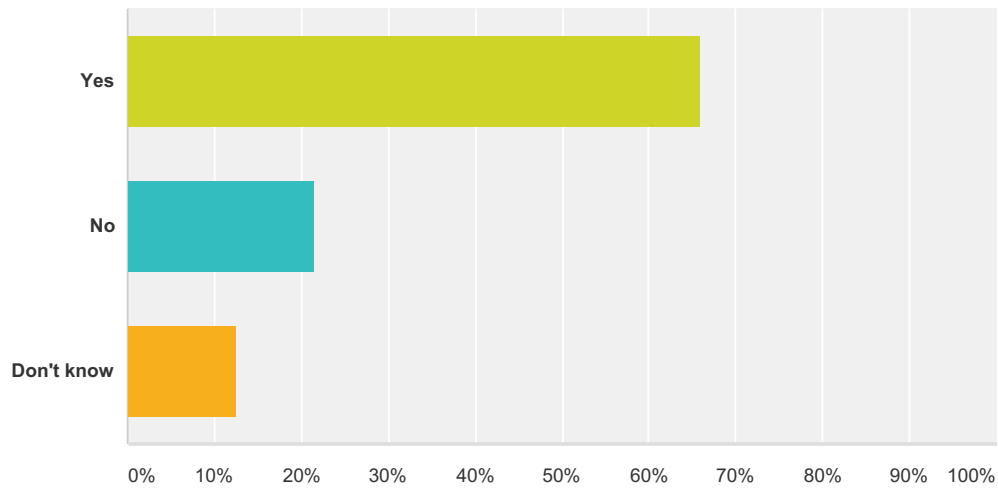
Answered: 88 Skipped: 0



Answer Choices	Responses	
Yes	25.00%	22
No	47.73%	42
Don't know	27.27%	24
<b>Total</b>		<b>88</b>

### Q9 Do your laboratory incident reports indicate if a safety shower was used?

Answered: 88 Skipped: 0



Answer Choices	Responses
Yes	65.91% 58
No	21.59% 19
Don't know	12.50% 11
<b>Total</b>	<b>88</b>

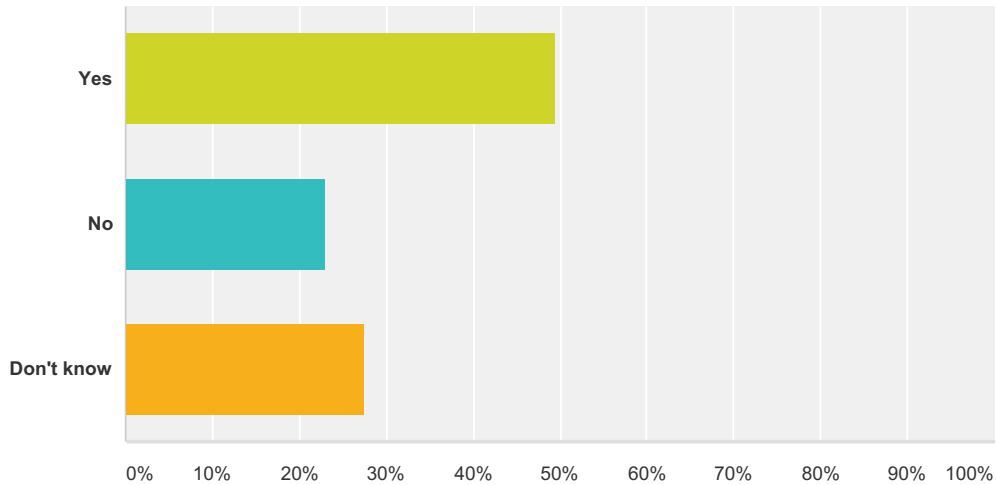
#	If "yes", how often was the use of an eyewash or safety shower reported in an emergency in the last ten years?	Date
1	During my professional career I've seen them used several times in academia.	11/18/2016 2:41 PM
2	six to 7 times	11/18/2016 2:37 PM
3	3	11/18/2016 12:40 PM
4	3	11/18/2016 11:18 AM
5	no records due to department turnover	11/18/2016 10:11 AM
6	probably 5 or fewer	11/18/2016 9:31 AM
7	For 7,9 answer is not really YES (it is not NO)... it is more like Sometimes...	11/18/2016 9:30 AM
8	None	11/18/2016 9:06 AM
9	Never	11/18/2016 9:02 AM
10	One incident involving use of an eyewash station.	11/18/2016 8:53 AM
11	3-5 times	11/18/2016 8:48 AM
12	My best educated guess is less than 5%.	11/18/2016 8:44 AM
13	Safety shower: less than 10 times Eyewash: around 20 times	11/18/2016 8:33 AM
14	0	11/18/2016 8:31 AM
15	Cannot say an exact number! However when an incident/accident involves hazardous material, the eyewash or shower or both are used.	11/17/2016 12:31 PM

## Emergency Shower and Eyewash Feedback

16	The showers have not been used in the last 10 years for an emergency situation. The eyewash units have been used twice for an emergency situation.	11/15/2016 6:36 AM
17	20-25 estimate	11/14/2016 8:04 PM
18	1	11/14/2016 5:19 PM
19	none	11/14/2016 5:03 PM
20	There has not been a reported incident of chemical splash or spill that required the use of a safety shower.	11/14/2016 3:37 PM
21	I do not have access to this data.	11/14/2016 1:10 PM
22	Has not been required.	11/14/2016 10:39 AM
23	once	11/14/2016 10:10 AM
24	Eyewash: not more than 5 times in 10 years. Shower: none in last ten years.	11/14/2016 9:20 AM
25	We don't have EHS person and faculty no longer have forms to fill out when something goes wrong.	11/14/2016 9:00 AM
26	Zero	11/14/2016 8:35 AM
27	shower - 0 eye wash - 5	11/14/2016 8:11 AM
28	~5	11/11/2016 6:34 PM
29	Never	11/11/2016 4:33 PM
30	Once	11/11/2016 2:56 PM
31	1 time	11/10/2016 1:50 PM
32	Never	11/10/2016 1:13 PM
33	Only about 2-3 times that we are aware of.	11/10/2016 1:11 PM
34	2-3 times	11/10/2016 11:17 AM
35	If the event involved employee using a EW or SS it would be included in the investigation report 100% of the time.	11/10/2016 10:43 AM
36	twice	11/10/2016 10:14 AM
37	We have not had an incident yet!	11/10/2016 9:59 AM
38	0	11/10/2016 9:58 AM

**Q10 Do the requirements of the current American National Standard for Emergency Eyewash and Shower Equipment ANSI/ISEA Z358.1-2014 meet your organization's needs?**

Answered: 87 Skipped: 1



Answer Choices	Responses
Yes	49.43% 43
No	22.99% 20
Don't know	27.59% 24
<b>Total</b>	<b>87</b>

#	If "No", please indicate what changes you would like to see in the standard here.	Date
1	Generally, for an academic environment, yes. However, there are several issues that should be addressed in this revision. 1. Manufacturers should not be able to self-certify compliance with the Standard. This should be independently certified by an accredited third party. 2. The standard is currently vague on the scope of the spray patterns. The diameter of the pattern and height from the floor at a given pressure should be specifically outlined as given in current European requirements. 3. The standard should specifically bar manufacturers from labeling single use 16 oz and 32 oz bottles (and similar devices that do not meet the standard requirements) as "Emergency Eye/Face Wash" units which implies that they meet requirements they do not. The standard already covers these as "Personal Wash Units" and they should be labeled as such. I have seen businesses that require an ANSI-compliant eyewash attempt to satisfy their compliance with these insufficient methods.	11/18/2016 2:41 PM
2	Change monthly testing of a safety shower to twice yearly.	11/18/2016 2:37 PM
3	The requirements are too strict and require too much for older laboratories to be upgraded.	11/18/2016 12:10 PM
4	Weekly flushes of showers is not sustainable and we do not have the man-hours to devote to this.	11/18/2016 10:11 AM
5	Standard should require they be plumbed to sanitary sewer. It is the only way to get the #(\$*\$& architects, engineers and "value" contractors to do this and prevent other safety hazards arising from hundreds of gallons of water on the floor. EPA has clearly stated this is de minimis and not a waste.	11/18/2016 10:02 AM
6	Couldn't get our persons responsible for the implementation of these standards to respond in time for this email	11/18/2016 9:30 AM
7	Weekly flushing of eyewashes seems excessive	11/18/2016 9:02 AM

## Emergency Shower and Eyewash Feedback

8	Need more specifics about quantities of chemicals that require a shower. What does hazardous materials really mean?	11/18/2016 8:44 AM
9	Of course!	11/17/2016 12:31 PM
10	We have various contractors globally with differing regional regulations and guidance. ANSI standards go a long way in helping other regions be more protective than they might be.	11/15/2016 5:27 PM
11	Newly installed units are not connected to drain piping. The connection to drain needs to be more than a recommendation if it's going to cost money.	11/14/2016 10:46 AM
12	The requirement for weekly activation of showers is far too frequent.	11/14/2016 9:20 AM
13	Building a new facility that will meet standards Occupancy in Fall of 2018	11/14/2016 8:11 AM
14	Requires testing too often with little support for doing so. We do not have the personnel to do it as often as recommended.	11/11/2016 6:34 PM
15	Weekly activation of both the eyewash and shower is just not feasible. We don't have dedicated staff to test this equipment and it's a real burden on research staff to accomplish.	11/10/2016 11:59 AM
16	We activate our showers weekly instead of monthly, simply because of time constraints. Eyewashes get activated weekly.	11/10/2016 11:24 AM
17	Evidence that weekly testing/flushing is needed?	11/10/2016 10:57 AM
18	I am only answering at the departmental level. The standards are okay for us as far as testing goes for flushing.	11/10/2016 10:56 AM
19	Periodic flow requirements are too frequent.	11/10/2016 10:44 AM
20	I would like to see an easier way for the eyewashes and safety showers to get tested. Part of our problem is that our university does not have floor drains so it is hard to test the equipment.	11/10/2016 10:14 AM
21	Does not address drainage, alarms	11/10/2016 10:08 AM
22	It needs guidance on special installations, such as where there are accessibility and space concerns.	11/10/2016 10:08 AM
23	Shower testing frequency is not practical	11/10/2016 10:02 AM

## Emergency Shower and Eyewash Feedback

### Q11 Do you have any other comments on the impact of ANSI standards for safety showers for your organization?

Answered: 17 Skipped: 71

#	Responses	Date
1	ADA compliance is a serious issue, particularly in academia. The standard's travel distance is 55' in 10 seconds, but this is for an able-bodied person, not a wheelchair user or blind person. If a workstation is designated specifically for special physical needs persons, the emergency equipment should be located immediately adjacent to the work area.	11/18/2016 2:41 PM
2	No	11/18/2016 2:37 PM
3	No!	11/17/2016 12:31 PM
4	We appreciate them.	11/15/2016 7:47 PM
5	Slip and electrical hazards may be posed during use. Insurance companies are refusing to cover water damage from safety shower malfunctions when there are no floor drains. My guess is that insurance companies will also refuse to cover damages from chemicals that may be released into drains during the use of safety showers.	11/14/2016 3:37 PM
6	most of the showers and eyewashes are in shop settings, not lab settings, and I don't know whether the standards are ok for those settings either.	11/14/2016 10:49 AM
7	My only concern is a trivial one. We have safety shower/eyewash stations that are alarmed with audio and visual. Is this a new trend?	11/14/2016 10:02 AM
8	None.	11/14/2016 9:33 AM
9	We have needed safety officer for a decade but administration doesn't agree. In colleges, administration is often the problem.	11/14/2016 9:00 AM
10	The requirement for tempered water needs to be modified or removed. The warm water element creates the potential for a hazardous situation in dead legs. And yes the requirement for weekly flushing would eliminate this, but the reality is that in a lab environment the practice of weekly flushing can be difficult and is rarely done. Also, anecdotally, many areas of the country have water temperatures that would fall easily into an expanded temperature range without tempering. We've also seen problems with tempering valves failing to a full hot position (noticed during annual testing), a very bad situation. Just some thoughts for consideration.	11/11/2016 4:33 PM
11	please make it clear what specific tests need to be conducted and recorded - weekly, monthly, annually. Be specific to eye wash / showers / drench hose units. thanks	11/10/2016 4:18 PM
12	Please note that the answer to #7 is not the norm for our campus but I have see one safety shower outside a door on campus.	11/10/2016 1:11 PM
13	We flush eyewash stations weekly.	11/10/2016 12:01 PM
14	Better advice on what "tepid" water is and when a mixing valve might be required. Stronger language about no obstructions for access (eyewash/showers in hallways). Language about ADA access would also be helpful.	11/10/2016 11:59 AM
15	no	11/10/2016 11:17 AM
16	It would be nice to have drain standards for showers.	11/10/2016 10:56 AM
17	Tepid water requirements are not always followed	11/10/2016 10:43 AM