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INSIGHTS

ChemStation



Huh?

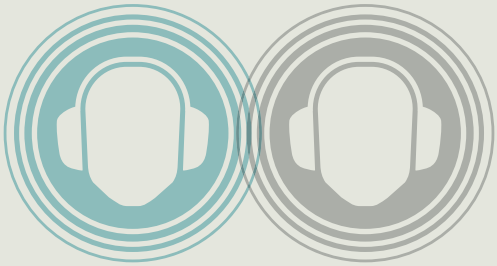
Hearing loss is a big problem in many workplaces. Noisy equipment and processes can damage sensitive structures in the ear. Hearing loss usually takes place over time, and once the damage is done, *it's irreversible*.

According to The National Institute for Occupational Safety and Health, approximately 22 million workers are exposed to noise levels on the job that could harm their hearing. Affected industries include manufacturing, construction, mining, transportation, agriculture, and the military.

Key facts about hearing loss:

- Affects 13.9 million people.
- 1 in 4 people exposed to excessive noise or other toxicants while on the job will develop permanent hearing loss.
- May impede some individuals' ability to be gainfully employed.
- Is not inevitable and can be prevented.

If you have a noise problem in your workplace, OSHA requires you to provide appropriate hearing protection and to develop a hearing conservation program.



Cell Phone Laws

The Governors Highway Safety Administration released an updated list of state cell phone/texting laws. See ghsa.org/html/stateinfo/laws/

THINKING GREEN

The Challenge of Waste

"I hate waste. I have to pay for it with the product and then I have to pay to get rid of it." This is a paraphrased quote from Lee Scott, the chairman of WalMart, from some years ago. He was talking about the excess packaging used to ship product to them and their need to then get rid of it. This is one of the aspects of the waste "problem" as it relates to sustainability.

The term "waste" actually defines the problem. It can be said to be something that is not wanted or needed, has no economic value and requires disposal by some means. It could be by incineration (with the resulting ash) or burial or other means of destruction. It is an oxymoron in industrial processes since waste means loss. In an ideal world, all processes would be efficient and there would be no waste.

It is clear there is pressure from many quarters on business to take a leading role in waste minimization and resource recovery.

To achieve true sustainability, we must reduce our "garbage index" – that which we permanently throw away into the environment that will not be naturally recycled for reuse – to near zero.

Safety Training's 7 Deadly Sins

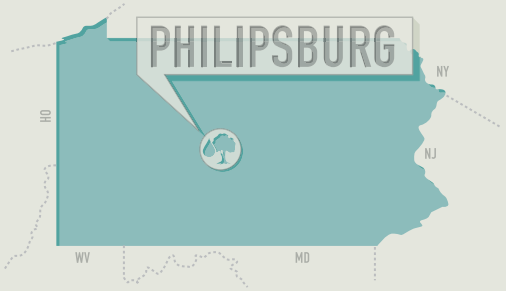
Strong motivation for and skillful delivery of safety training make the difference between high-quality results and so-so or oh-no! outcomes. Employees won't work safely if your training manifests these 7 deadly sins:

1. Trainees don't know what they're supposed to learn in training sessions.
2. They don't understand how what they're learning is connected to their job.
3. They don't think the training is important or affects them personally.
4. Trainees don't care about improving safety performance.
5. They think management doesn't care about safety.
6. They aren't given time to ask questions and practice new skills.
7. Learning and retention of information isn't properly evaluated and monitored.

Here We Grow Again!

We're pleased to announce the opening of our newest Manufacturing Center. ChemStation – Happy Valley is located in Philipsburg, PA, just west of State College. This is our third location in Pennsylvania that will supply customers with environmentally safe, water-based detergents and process chemicals.

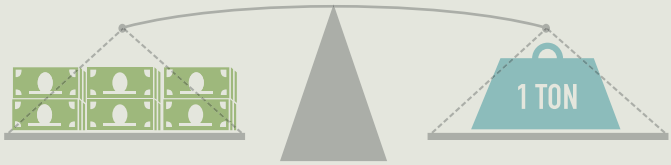
In our 27th year of "Keeping it Clean" with our Refill…not Landfill system, we continue to provide cleaning products without contaminating the countryside.



Visualizing One Million

Even though it is often stressed that counting to a million would be an exceedingly tedious task due to the time and concentration required, there are many ways to bring the number "down to size" in approximate quantities.

- **Information:** Not counting spaces, the text on 136 pages of an Encyclopedia Britannica, or 600 pages of pulp paperback fiction contains approximately one million characters.
- **Length:** A typical car tire might rotate a million times in a 1,200-mile trip, while the engine would do several times that number of revolutions.
- **Fingers:** If the width of a human finger is 7/8 inch, then a million fingers lined up would cover a distance of 14 miles.
- **Area:** A city lot 70 by 100 feet is about a million square inches.
- **Volume:** A million grains of table salt or granulated sugar occupies only about 64 ml, slightly over a quarter of a cup. One million cubic inches would be the volume of a small room only 8.5 foot by 8.5 foot by 8 foot high.
- **Computer:** A display resolution of 1,280 by 800 pixels contains 1,024,000 pixels.
- **Money:** A USD bill of any denomination weighs 1 gram. There are 454 grams in a pound. One million $1 bills would weigh in at 2,202.64 pounds, or just over 1 ton.



SOAPBOX

It's lonely at the top…but you eat better.

Give a man a fish and he will eat for a day. Teach him to fish and he will sit in a boat and drink beer all day.

We admire the wisdom of people who ask us for advice.

No one makes all of life's journey on a green light.

You can put steak sauce on a hotdog, but it's still a weinie.

No matter what language it is, everybody understands a quick kick in the rear.

It's easier to fight for one's principles than to live up to them.

Birthdays are good for you. Statistics show that the people who have the most, live the longest.

You know you're old when you hear heavy breathing on the phone and aren't sure if it's an obscene call or an old friend.

ChemStation®

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By the Numbers



Gallons of soap delivered:
162,101,887 since 1984



Empty drums not in landfills:
2,947,307 since 1984