January 2020

Issue 100

Army Industrial Hygiene News and Regulatory Summary

Hazardous Substances

Department of Labor Celebrates the 50th Anniversary of the OSH Act

Special Interest Articles:

- *Solvents*
- *Dust Collection*
- *Chemical Muffs*
- *Coronavirus*
- *Nerve Agent*

The DOL commemorated the 50th anniversary of the OSH Act of 1970, which aims to ensure that employers provide employees with a safe environment free of recognized hazards like chemical exposure, noise levels, mechanical dangers, and extreme or unsanitary conditions. The Act is responsible for creating the Occupational Safety and Health Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH).

Read more:
https://ohsonline.com/articles/2020/01/23/department-of-labor-celebrates-the-

50th-anniversary-of-the-osh-act.aspx?admgarea=ht.HandProtection

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Extrapolating the Applicability of Measurement Data on Worker Inhalation Exposure to Chemical Substances

Measured data are generally preferred to modelled estimates of exposure. Grouping and read-across is already widely used and accepted approach in toxicology, but an appropriate approach and guidance on how to use existing exposure measurement data on one substance and work situation for another substance and/or work situation is currently not available. This study presents a framework for an extensive read-across of existing worker inhalable exposure measurement data. This framework enables the calculation of read-across factors based on another substance and/or work situation by first evaluating the quality of the existing measurement data and then mapping its similarity or difference with another substance and/or work situation. The system of read-across factors was largely based on the determinants in ECETOC TRA and ART exposure models. The applicability of the framework and its proof of principle were demonstrated by using five case studies. In these case studies, either the 75th percentiles of measured exposure data was observed to lie within the estimated 90% confidence intervals from the read-across approach or at least with the increase in the geometric mean of measured exposure, geometric mean of estimated exposure also increased. Testing and re-evaluation of the present framework by experts in exposure assessment and statistics is recommended to develop it further into a tool that can be widely used in exposure assessment and regulatory practices.

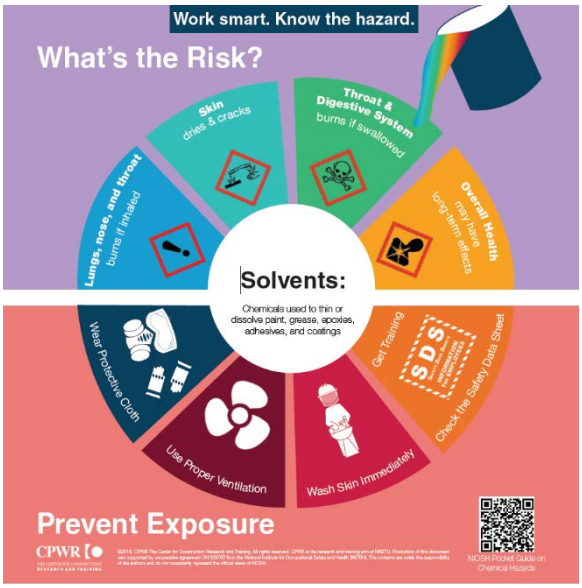
Read more:
https://academic.oup.com/annweh/advance-article/doi/10.1093/annweh/wxz097/5714354?searchresult=1

Working Safely With Solvents: CPWR Publishes Alert, Infographic

Stressing the importance of safety when working with solvents, CPWR – The Center for Construction Research and Training has published a hazard alert and an infographic addressing the topic.

Solvents are chemicals used to thin or dissolve paint, grease, epoxies, adhesives and coatings. Exposure to skin can cause dryness and cracking. If swallowed or inhaled, solvents can irritate or burn the nose, mouth, throat, lungs, stomach and intestine. Long-term exposure can damage the nervous system, reproductive system, kidneys and respiratory system, as well as cause cancer.

The center notes that under OSHA's Hazard Communication Standard (1910.1200), employers are required to educate workers about potential chemical exposure hazards,

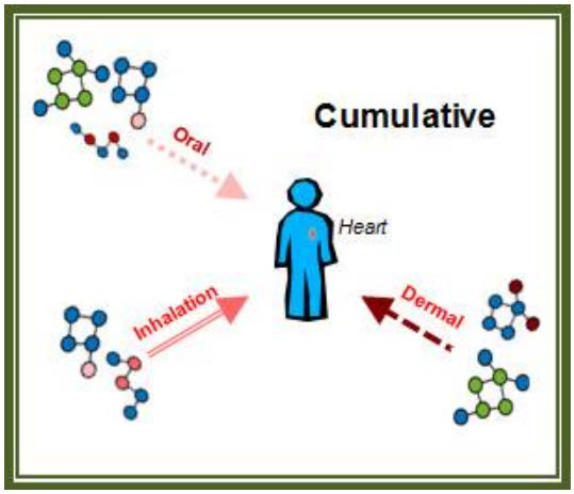


provide Safety Data Sheets and label products.

Read more:
https://www.safetyandhealthmagazine.com/articles/19399-working-safely-with-solvents-cpwr-publishes-alert-infographic

Occupational Co-exposures to Multiple Chemical Agents from Workplace Measurements by the US Occupational Safety and Health Administration

Objectives
The occupational environment represents an important source of exposures to multiple hazards for workers' health. Although it is recognized that mixtures of agents may have different effects on health compared to their individual effects, studies generally focus on the assessment of individual exposures. Our objective was to identify occupational co-exposures



occurring in the United States using the multi-industry occupational exposure databank of the Occupational Safety and Health Administration (OSHA).

Methods
Using OSHA's Integrated Management Information System (IMIS), measurement data from workplace inspections occurring from 1979 to 2015 were examined. We defined a workplace situation (WS) by grouping measurements that occurred within a company, within the same occupation (i.e. job title) within 1 year. All agents present in each WS were listed and the resulting databank was analyzed with the Spectrosome approach, a methodology inspired by network science, to determine global patterns of co-exposures. The presence of an agent in a WS was defined either as detected, or measured above 20% of a relevant occupational exposure limit (OEL).

Read more:
https://academic.oup.com/annweh/advance-article-abstract/doi/10.1093/annweh/wxaa008/5719621?redirectedFrom=fulltext

Skin Barrier Impairment Due to the Occlusive Effect of Firefighter Clothing

At fire scenes, firefighters are exposed to potentially harmful substances. Besides inhalation of these products, also skin contamination and the risk of dermal absorption is getting more attention. In this perspective, skin barrier impairment due to the occlusive effect of firefighter clothes could enhance the risk of penetration of hazardous substances. The effect of a firefighter jacket and cellophane on the skin was studied in a paired comparison involving 16 volunteers. Biophysical parameters were measured before, immediately after and 30 min after ending

the occlusion. Reflectance confocal microscopy was used to study the skin morphology. Immediately after wearing a firefighter jacket, Transepidermal Water Loss values were significantly increased. This is an indication of an occlusive effect of the firefighter jacket. The skin barrier was fully restored after 30 min after occlusion with cellophane or wearing a firefighter jacket.

Read more: https://academic.oup.com/annweh/advance-article-abstract/doi/10.1093/annweh/wxaa005/5722090?redirectedFrom=fulltext

Martinite: An Alternative to Asbestos Insulation Available Since the Nineteenth Century

The asbestos industry has always claimed that asbestos is a 'magic mineral', which is not replaceable. New findings, however, contradict this because asbestos-free alternatives, with excellent insulating properties, have been available since the end of the nineteenth century. The aim of this current research is to gather evidence of the potential of 'Martinite' to replace asbestos. We identified references to 'Martinite' in documents and brochures pertaining to insulation of ships, dating back as far as possible by acquiring recent interviews, utilizing records in public libraries and in archives, and conducting web searches. Martinite was produced by a small company called 'Manifatture Martiny', founded at the end of the nineteenth century in Turin, Italy. This company was specialized in insulation materials production, such as cork, rubber, foams, and even asbestos. In the early twentieth century, Martinite was utilized in warships of the Royal Italian Navy.

Read more: https://academic.oup.com/annweh/article/64/1/5/5644531

Radiation

The "Secret of the Century": Many Oil-and-Gas Workers Handle Radioactive Materials Every Day

The oil-and-gas industry produces almost a trillion gallons of toxic waste a year—and a new investigation shows that this radioactive waste could be the cause of workers and communities getting very sick across America.
What many people assumed was a relatively safe job has raised glaring concerns in the last year as rising evidence suggests that many oil and gas workers are being exposed to radioactive materials—without their knowledge.

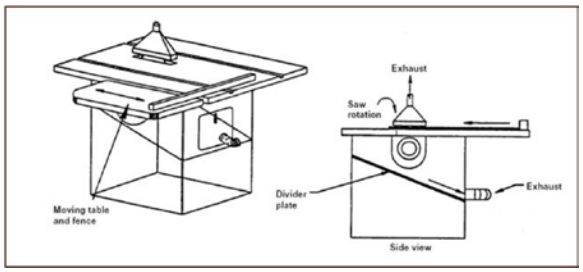
One Rolling Stone article dives into the stories of some workers who learned of their occupational hazards through the grapevine and not their employers. Author of the piece, Justin Nobel, is writing a book

about the radioactive hazards of the oil and gas industry and about this problem that has gone unaddressed.

Read more:
https://ohsonline.com/articles/2020/01/29/the-secret-of-the-century-many-oilandgas-workers-handle-radioactive-materials-every-day.aspx?admgarea=news

Ventilation

Best Practices in Dust Collector Hood Design



In many situations in life you can go cheap, but you may pay for it in the end. This is especially true for dust collector hood designs. Small changes in hood designs often yield big results – especially in performance and total cost of operation.

Savvy managers know their greatest asset is their people, so it's no surprise that worker comfort is a top priority for successful businesses. The ACGIH – Industrial Ventilation, A Manual of Recommended Practice for Design is in its 28th edition and is considered by many to be the standard by which dust collection solutions should be measured. It incorporates industrial hygiene best practices and is all about improving the breathing zone of operators and staff in facilities. This manual offers guidance for hooding options and presents a good, better, best case strategy for many hood configurations.

Read more: https://www.donaldson.com/en-us/industrial-dust-fume-mist/technical-articles/best-practices-dust-collector-hood-design/

PPE

PPE in Healthcare: How to Prevent Exposure and Contamination

When people think about personal protective equipment (PPE), they may think of hard hats, steel-toe boots and protective eyewear. In the healthcare industry, however, PPE takes on a different meaning and purpose. In many work settings, PPE is used to protect workers from potential injuries. In healthcare, the primary purpose of PPE is to protect doctors, nurses and others from illness as they work with patients.

Read more: https://www.assp.org/news-and-articles/2020/01/22/ppe-in-healthcare-how-to-prevent-exposure-and-contamination

Noise

"Chemical Earmuffs" Drugs Could Prevent Noise-Induced Hearing Loss

Noise-induced hearing loss is a prevalent workplace injury in the modern industrial plant. Employers must manage workplace noise exposure. Doing so is complex in terms of accurately assessing sound levels and noise exposure in the workplace, identifying and ranking the dominant noise sources to be targeted for mitigation, and finding practicable, effective, and affordable noise control solutions.

Many aspects of acoustics and noise control are counterintuitive, and there is a great deal of myth and misinformation cluttering the common knowledge about noise. But there is a "convenient truth" we can use to cut through the confusion. Quite simply, there are really only a few ways to reduce noise indoors. All workplace noise control measures are really just variations of the three basic methods, which are:

Read more:
https://ohsonline.com/articles/2019/12/02/three-basic-methods-workplace-noise-control.aspx

Preventive Medicine

Mosquito-Borne Diseases Could Be Prevented By Skin Cream

A skin cream used to treat warts and skin cancer could help protect people against viral diseases such as Zika and dengue, according to new research from the University of Leeds.
Their findings have identified a new way we might prevent infection from a wide variety of dangerous viruses.

The climate emergency, coupled with an increasingly inter-connected world, has led to an upsurge in potentially deadly

mosquito-borne illnesses for which no effective treatments currently exist.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/uol-mdc011620.php

Eliminating Take-Home Exposures: Recognizing the Role of Occupational Health and Safety in Broader Community Health

Don't take lead home from your job!

■ Can Lead at work harm my child?

Yes. Your child can get lead poisoning if you or someone who lives in your home works with lead.

Some kinds of work make lead dust or fumes. You cannot see lead dust, but it can get on your hands, face, and clothes. You take lead dust from your job to your family when you wear your work clothes and shoes home. Lead dust can get in your car. It can get on furniture, floors, and carpets. Your child can swallow this lead dust and be poisoned.

■ What can lead poisoning do to my child?

Children who swallow lead dust may have problems learning and paying attention. Lead can harm the brain, nerves and kidneys. Lead is even more dangerous for children under the age of six.

Most children with lead poisoning do not look or act sick.

Ask your doctor to test your child's blood for lead. This is the only way to know if your child is being lead poisoned.

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

Toxic contaminants inadvertently brought from the workplace to the home, known as take-home or, have often been framed as a problem that arises due to unsanitary worker behavior. This review article conceptualizes take-home exposures as a public health hazard by (i) investigating the history of take-home contaminants and how they have been studied, (ii) arguing that an ecosocial view of the problem is essential for effective prevention, (iii) summarizing key structural vulnerabilities that lead populations to be at risk, and (iv) discussing future research and prevention effort needs. This article reframes take-home exposures as one of many chronic pathways that contributes to persistent health disparities among workers, their families, and communities. Including the role of work in community health will increase the comprehensiveness of prevention efforts for contaminants such as lead and pesticides that contribute to environmental disparities.

Read more:
https://academic.oup.com/annweh/advance-article/doi/10.1093/annweh/wxaa006/5716892?searchresult=1

Color-Changing Bandages Sense and Treat Bacterial Infections

According to the World Health Organization, antibiotic resistance is one of the biggest threats to global health. Sensing and treating bacterial infections earlier could help improve patients' recovery, as well curb the spread of antibiotic-resistant microbes. Now, researchers reporting in ACS Central Science have developed color-changing bandages that can sense drug-resistant and drug-sensitive bacteria in wounds and treat them accordingly

Read more:
https://www.eurekalert.org/pub_releases/2020-01/acs-cbs012420.php

Butt Emissions: Study Finds Even Extinguished Cigarettes Give Off Toxins

Cigarette butts pile up in parks, beaches, streets and bus stops, places where all types of littering are frowned upon. Best estimates are that over five trillion butts are generated by smokers each year worldwide, and concern about their environmental impact has prompted studies of how they affect water and wildlife habitats. But despite their prevalence, almost no one has studied the airborne emissions coming off these tiny bits of trash.

When Dustin Poppendieck was asked to evaluate them, he was skeptical. As a measurement scientist at the National Institute of Standards and Technology (NIST) he realized there was no standard way of analyzing the amounts of chemicals swirling in the air around cigarettes hours and days after they'd been put out, and he was intrigued. But he also thought there might not be enough chemicals present to make the measurements meaningful.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/nios-bes012920.php

Human Body Temperature Has Decreased In the United States, Stanford Study Finds

Since the early 19th century, the average human body temperature in the United States has dropped, according to a study by researchers at the Stanford University School of Medicine.

"Our temperature's not what people think it is," said Julie Parsonnet, MD, professor of medicine and of health research and policy. "What everybody grew up learning, which is that our normal temperature is 98.6, is wrong."
That standard of 98.6 F was established by German physician Carl Reinhold August Wunderlich in 1851. Modern studies, however, have called that number into

question, suggesting that it's too high. A recent study, for example, found the average temperature of 25,000 British patients to be 97.9 F.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/sm-hbt010720.php

Environmental Health

High Air Pollution Exposure in 1-Year-Olds Linked to Structural Brain Changes at Age 12

A new study suggests that significant early childhood exposure to traffic-related air pollution (TRAP) is associated with structural changes in the brain at the age of 12.

The Cincinnati Children's Hospital Medical Center study found that children with higher levels of TRAP exposure at birth had reductions at age 12 in gray matter volume

and cortical thickness as compared to children with lower levels of exposure.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/cchm-hap012320.php

What's in Your Water?

Mixing drinking water with chlorine, the United States' most common method of disinfecting drinking water, creates previously unidentified toxic byproducts, says Carsten Prasse from Johns Hopkins University and his collaborators from the University of California, Berkeley and Switzerland.

The researchers' findings were published this past week in the journal Environmental Science & Technology.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/jhu-wiy012820.php

Rice Lab Turns Trash into Valuable Graphene in a Flash

A new process introduced by the Rice University lab of chemist James Tour can turn bulk quantities of just about any carbon source into valuable graphene flakes. The process is quick and cheap; Tour said the "flash graphene" technique can convert a ton of coal, food waste or plastic into graphene for a fraction of the cost used by other bulk graphene-producing methods.

That banana peel, turned into graphene, can help facilitate a massive reduction of the environmental impact of concrete and other building materials. While you're at it, toss in those plastic empties.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/ru-rlt012720.php

Yes——Air Pollution Exists Inside Your Car, Too

Did you know that your biggest daily exposure to air pollutants comes while driving to work? A recent study from the University of California gives tips on how to best clean the air inside your car.

Toxic air pollutants like carbon dioxide and nitrogen oxide don't just float around in the outside air: the insides of our cars can also be full of unhealthy air, and this can gravely affect our health.

There are some preexisting ways to filter your car's cabin air clean, particularly with the settings on your car's dashboard. Fan speed, ventilation mode, and cabin air recirculation options can protect your respiratory health, but there these do not filter many of the smaller and hazardous particles in the air.

Read more:
https://www.eurekalert.org/pub_releases/2019-12/uos-ptc121019.php

Mapping the Cumulative Health Effects of Environmental Exposures

Over the last two decades, the health sciences have been transformed by genomics, which has provided insights into genetic risk factors for human disease. While powerful, the genomics revolution has also revealed the limits of genetic determinants, which account for only a fraction of total disease risk. A new article in the journal Science argues that a similar large-scale effort is needed to ensure a more complete picture of disease risk by accounting for the exposome, defined as our cumulative exposure to environmental agents such as chemical pollutants.

Read more:
https://www.sciencedaily.com/releases/2020/01/200123152604.htmp

Ergonomics

Virtual Reality, Real Injuries: OSU Study Shows How to Reduce Physical Risk in VR

Carpal tunnel, stiff shoulders, eye-strain headaches - these are all well-known side effects of prolonged computer use. But what happens when you step away from the desktop and into virtual reality?

A recent study from Oregon State University assessed how some common virtual reality movements contribute to muscle strain and discomfort. It's an effort to ensure future user safety in this fast-growing technology that is used not only for gaming, but also increasingly for education and industrial training.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/osu-vrr010720.php

Safety

The Joint Commission Tackles Nurse Burnout

According to The Joint Commission, of the 2,000 healthcare providers who participated in an April 2019 national nursing engagement survey, more than 15% of all nurses reported feelings of burnout, with emergency department nurses at a higher risk. The second survey in 2019 found that burnout is among the leading patient safety and quality concerns in healthcare organizations.

Read more:
https://www.healthleadersmedia.com/nursing/joint-commission-tackles-nurse-burnout

Combustible Dust Explosions: Identifying and Mitigating Risk

Combustible dust, as the name eludes to, are small particles of dust that can become highly explosive under certain conditions. The Occupational Safety and Health Organization defines combustible dust as "a solid material composed of distinct particles or pieces, regardless of size, shape, or chemical composition, which presents a fire or deflagration hazard when suspended in air or some other oxidizing medium over a range of concentrations."

Dust accumulates throughout the years, and any small fire or explosion that shakes the dust can cause it to ignite. This phenomenon is so dangerous because dust builds up everywhere, and even the smallest amount can cause a deadly explosion under the right conditions. Between the years 1980 and 2005, The U.S. Chemical Safety and Hazard Investigation Board has reported 119 deaths and 718 injuries that have resulted from combustible dust incidents.

Read more:
https://ohsonline.com/articles/2020/01/22/combustible-dust-explosions-identifying-and-mitigating-risk.aspx?admgarea=news

The Protection Misconception Surrounding Climbing Helmets

According to a report from the American Journal of Industrial Medicine, construction workers have the highest rate of brain injuries among U.S. workers—both fatal and non-fatal. Traumatic brain injuries represented 25 percent of all construction fatalities and 24 percent of all occupational traumatic brain injury fatalities. The report cited the leading causes of traumatic brain injuries for construction workers to be falls from roofs, ladders and scaffolds.

With studies reporting such staggering statistics as these, it's no surprise that head protection has become a popular topic in discussions surrounding construction worker safety. It also may explain why more and more construction companies have been exploring the use of climbing helmets, rather than traditional hard hats, when assessing their head protection needs. This trend can be attributed to the belief that all climbing helmets provide the same, enhanced level of head protection by protecting workers from both top-of-head and side impact.

Read more:
https://ohsonline.com/articles/2020/02/01

/the-protection-misconception-surrounding-climbing-helmets.aspx?admgarea=ht.RegulationsStandards

Inside NIOSH:
Work-related Injuries More Common among Temporary Workers

Temporary workers had a higher rate of workers' compensation claims for injuries than did permanent workers, according to a large study in Ohio published in the American Journal of Industrial Medicine.

As the nature of work continues to change, temporary workers are becoming more common in many workplaces. These workers may work for staffing agencies or be on-call, contract, or freelance workers.

This study looked at more than 1.3 million injury claims to the Ohio Bureau of Workers' Compensation during 2001 to 2013. Of these claims, 45,046 were from temporary employment agency workers. The rate of injury in this group of workers was 11.6 per 100 workers, compared to a rate of 4.9 among permanent workers.

Read more:
https://www.cdc.gov/niosh/enews/enewsv17n9.html#research

Emergency Preparedness

Coronavirus Outbreak: OSHA Offers Information on Preventing Exposure

OSHA has published an online resource on a new coronavirus outbreak that includes a link to Centers for Disease Control and Prevention interim guidance, quick facts about the outbreak, and information on preventing exposure.

The deadly coronavirus is a respiratory illness reportedly linked to a large seafood and animal market in Wuhan, China, according to CDC. Symptoms include fever, cough and shortness of breath. The outbreak has killed at least 130 people in China, according to reports.

Read more:
https://www.safetyandhealthmagazine.com/articles/19398-coronavirus-outbreak-osha-offers-information-on-preventing-exposure

Deployment Health

Study: Treating Service Members without Painkillers Reduces Risk of Mental Health Concerns

A new study says we may need to take a long, hard look at how we treat pain in those returning from military service.

It's not uncommon for those returning from military service to have both physical pain and mental health concerns, such as post-traumatic stress disorder. But this new study in the Journal of General Internal

Medicine says how we treat one might really impact the other.

Painkillers are often used when military personnel return from service with the common pain concerns seen in this study. The most common complaints were chronic pain in the joints, back and neck. But this study found treating that pain with alternatives to painkillers, such as acupuncture, heat and ice therapies, spinal manipulation and even stimulation devices to treat pain lowers the risk for mental health problems and reduces the risk of suicide.

Read more:
https://local12.com/health/health-updates/study-treating-service-members-without-painkillers-reduces-risk-of-mental-health-concerns-cincinnati

Nanotechnology

Nanomaterial Fabric Destroys Nerve Agents in Battlefield-Relevant Conditions

Northwestern University scientists have successfully combined a nanomaterial effective at destroying toxic nerve agents with textile fibers. This new composite material one day could be integrated into protective suits and face masks for use by people facing hazardous conditions, such as chemical warfare.

The material, a zirconium-based metal-organic framework (MOF), degrades in minutes some of the most toxic chemical agents known to mankind: VX and soman (GD), a more toxic relative of sarin.

Read more:
https://www.eurekalert.org/pub_releases/2020-01/nu-nfd010820.php

Regulatory Research & Industrial Hygiene Professional News

White House

White House Announces Initiative to Help Reduce Federal Worker Injuries and Stem Costs

The White House Office of Management and Budget has launched an initiative designed to enhance workplace safety and health – and, in turn, reduce injuries – among federal employees.

According to a Jan. 9 memo from acting Director Russell Vought, the Protecting Employees, Enabling Reemployment Initiative is aimed at getting federal agencies and the U.S. Postal Service to enhance or maintain performance in seven areas:

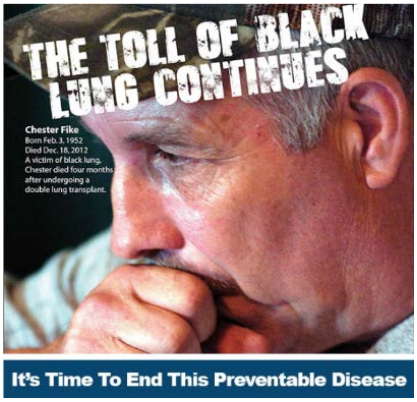
Read more:
https://www.safetyandhealthmagazine.com/articles/19377-white-house-announces-initiative-to-help-reduce-federal-workers-injuries-and-costs

NIOSH

Researchers to Look for Link between Coal Dust Nanoparticles, Black Lung Disease

Using a 3D device on a microchip that mimics the behavior of human lungs, researchers from Penn State University will use a $400,000 grant from NIOSH to study the effects of nano-scale coal dust on the lungs of underground miners, the university has announced.

Inhaling coal mine dust is an occupational hazard for underground miners and can



trigger the development of a number of lung diseases. A 2018 NIOSH study found that 1 out of 10 underground coal miners who have worked in mines for at least 25 years were identified as having coal worker's pneumoconiosis – a deadly but preventable disease known as black lung.

Read more:
https://www.safetyandhealthmagazine.com/articles/19304-researchers-to-look-for-link-between-coal-dust-nanoparticles-black-lung-disease

OSHA

Electrical Hazards: OSHA Training Institute Releases Free Video

The OSHA Region 6 Training Institute Education Centers has produced a video on preventing injuries and fatalities stemming from common electrical hazards.

The one-hour video covers topics such as arc flash, lockout/tagout and personal protective equipment, and offers best practices and additional resources.

Read more:
https://www.safetyandhealthmagazine.com/articles/19402-electrical-hazards-osha-training-institute-releases-free-video

Lock-out/tag-out saves lives.

DOL Adjusts Civil Penalty Amounts for Inflation

The Department of Labor has increased civil penalty amounts for violations to adjust for inflation, effective Jan. 15.
The increase is 1.01764% for DOL agencies, including OSHA and the Mine Safety and Health Administration, according to a final rule published in the Jan. 15 Federal Register.
For OSHA, the maximum penalty for "willful" or "repeat" violations is $134,937 – up from $132,598. The minimum fine for a willful violation is $9,639. The maximum fines for serious, other-than-serious, failure-to-correct and posting-requirement violations increase to $13,494 from $13,260

Read more:
https://www.safetyandhealthmagazine.com/articles/19327-dol-adjusts-civil-penalty-amounts-for-inflation

EPA

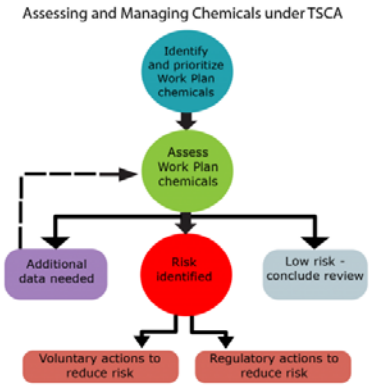
Steelworkers Sue EPA Over Changes to Chemical Safety Rule

United Steelworkers is suing the Environmental Protection Agency and its administrator, Andrew Wheeler, over the agency's recent changes to the Obama-era Chemical Disaster Rule.

In a lawsuit filed Jan. 7 in the U.S. District Court of Appeals for the District of Columbia Circuit, USW is petitioning the court to restore the original text of the rule. EPA's Risk Management Program Reconsideration final rule, which took effect Dec. 19, eliminated various provisions intended to prevent future incidents at chemical facilities.

Read more:
https://www.safetyandhealthmagazine.com/articles/19320-steelworkers-sue-epa-over-changes-to-chemical-safety-rule

EPA Names Next 20 Chemicals for High-Priority Risk Evaluation under Updated TSCA



The Environmental Protection Agency has issued a final list of an additional 20 chemicals designated as high-priority substances for risk evaluation under the Frank R. Lautenberg Chemical Safety for the 21st Century Act.

According to a notice published in the Dec. 30 Federal Register, a chemical identified as high priority is required to undergo a three-year evaluation for potential health and

environmental risks. EPA notes that such a designation "is not a finding of unreasonable risk."

The chemicals include:
•Seven chlorinated solvents
•Six phthalates, or hormone-disrupting substances, linked to several health-related issues
•Four flame retardants
•Formaldehyde
•One fragrance additive
•One polymer precursor

Read more:
https://www.safetyandhealthmagazine.com/articles/19305-epa-names-next-20-chemicals-for-high-priority-risk-evaluation-under-updated-tsca

APHC

Training

IMPORTANT NOTE: DATE CHANGES HAVE TAKEN PLACE

2020 Training Schedule (traditional classroom events)

Aberdeen Proving Ground North Campus, Maryland

December 9-13, 2019 Army DOEHRS-IH Initial Course (1st Quarter)-Mallette Training Facility, APG-N Campus Room 13

February 24-28, 2020 Army DOEHRS-IH Initial Course (2nd Quarter)-Mallette Training Facility, APG-N Campus Room TBD

April 20-24, 2020 Army IH Professional Practice Course - Mallette Training Facility, APG-N Campus Room 23 & 11

April 27-May 1, 2020 Blueprint Reading & Design Review –Havre de Grace, MD NG Armory

May 4-8, 2020 Healthcare & Laboratory Ventilation Course- 10A & 115

May 11-15, 2020 Industrial Ventilation Course - Mallette Training Facility, APG-N Campus Room Rm 10A & 115

May 18-22, 2020 Army DOEHRS-IH Initial Course (3rd Quarter)- Mallette Training Facility, APG-N Campus Room 24

August 17-21, 2020 Army DOEHRS-IH Initial Course (4th Quarter)- Mallette Training Facility, APG-N Campus Room 24

RESERVE SEATING QUOTAS NOW

Registration/Sign-up Rosters at https://aiph-dohs.ellc.learn.army.mil

ENROLLMENT IS OPEN NOW!

2020 ARMY DOEHRS-IH INITIAL COURSE (PHASE 1 ONLINE)

This course adds five new interactive lessons and allows for more space/time in the classroom Phase 2 environment for hands on activities.

Registration/Sign-up Rosters at https://aiph-dohs.ellc.learn.army.mil

Students must request access pass code paula.c.steven.civ@mail.mil

AVAILABLE NOW ON THE APHC BLACKBOARD

DECEMBER COURSE MAINTENANCE CYCLE COMPLETE

https://aiph-dohs.ellc.learn.army.mil

1. APHC reported transcripts to Career Program 12 and cleared rosters.
2. If you'd like to re-take a course, you may re-enroll now.

New Online material (self-enroll/self-development)

Occupational Exposure Limits (30min)

Certificate with 2 easy steps:
1-Completely view 30 minute lecture.
2-Answer the 7 embedded knowledge check questions with 70% minimum score.

ELO1: Describe **What They Are**
ELO2: Explain **Why We Use Them**
ELO3: Explain **How We Use Them**
ELO4: Give Examples of **When We Use Them**

IN *"WEBINAR"* COURSE AT APHC BLACKBOARD

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COMING SOON!

2020 HAZWOPER REFRESHER 8HR

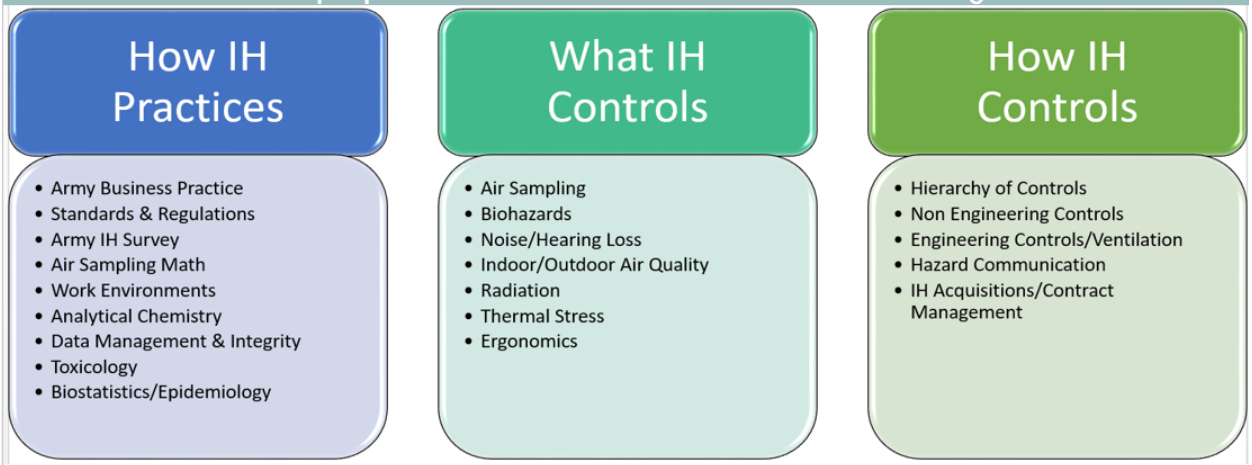
This course will be A-La-Carte. Users will select 8hrs of lecture from over a hundred hours of available related content. Users must upload a valid certificate to participate. This course will be available January 1, 2020 and must be completed before December 31, 2020.

COMING SOON TO APHC BLACKBOARD

New Online material (self-enroll/self-development)

2020 INTRODUCTION TO INDUSTRIAL HYGIENE 40HR COURSE

This course has a new look, shorter lessons, only 25 actual hours of lecture, and will include an interactive project that enforces enhanced stakeholder integration.



SELF-ENROLL NOW ON BLACKBOARD

New Online material (self-enroll/self-development)

IH Professionalism (0.5hr) is short lecture (23min) with *no homework, quizzes, or exam*. Participants receive a certificate from viewing ALL slides and using a code word to initiate a certificate of completion.

SELF-ENROLL NOW ON BLACKBOARD

COMPETENCY VERIFICATION SELF ASSESSMENTS

- Curious about how you stand professionally?
- Not sure what specifics to target with self development?
- Looking for free exam prep questions?

No lessons, lectures, certificates, just sets of short quizzes to help bridge the gaps.

SELF-ENROLL NOW ON BLACKBOARD

Registration/Sign-up Rosters at https://aiph-dohs.ellc.learn.army.mil

Analytical Chemistry
Basic Science & Math
Biohazards
Health Hazards
Indoor/Outdoor Air
Noise
Sampling
Survey Equipment
Thermal Stressors
Toxicology
Industrial Work Environments

LOOKING FOR EXTRA CREDITS/POINTS?

FREE ITRC ONLINE TRAINING CLASSES
Sponsored by EPA http://www.itrcweb.org/training

FREE UNIV ALBANY ONLINE TRAINING CLASSES
Sponsored by Center for Public Health Continuing Education
https://www.albany.edu/sph/cphce/images/phl_topics_19-20.png

NIOSH Respiratory Protection Webinar Recordings
https://www.cdc.gov/niosh/npptl/Respiratory-Protection-Week-2019.html

New Online material (self-enroll/self-development)

Industrial Hygiene Health Hazard Assessment Program (0.5hr)

THERE IS 1 LECTURE IN THIS COURSE (23min) THE LECURE HAS EMBEDDED KNOWLEDGE CHECKS. VIEWING ALL SLIDES AND COMPLETING THESE EMBEDDED KNOWLEDGE CHECKS IS MANDATORY. PARTICIPANTS HAVE TWO ATTEMPTS AT EACH QUESTION AND MUST COMPLETE THE LESSON ONCE STARTED.

SELF-ENROLL NOW ON BLACKBOARD

New Online material (self-enroll/self-development)

Introduction to Radiation (1.25hr)

This is a short lecture (66min) with *no homework, quizzes, or exam*. Participants receive a certificate from viewing ALL slides. This is both a great awareness level, refresher, or certification exam prep lecture.

SELF-ENROLL NOW ON BLACKBOARD

Ventilation Hoods (4hr)

No Exam. Certificate with 3 easy steps:
1-Completely view lecture with embedded knowledge check questions.
2-Watch the Practice Problem Video as calculations are worked out step by step by the instructor.
3-Complete multiple attempt homework assignment.

There's not really 4 hours of work in this course, but we are awarding a 4 hour certificate! This gives you credit for the lesson, the video, and the homework.

SELF-ENROLL NOW ON BLACKBOARD

CIH NOISE MATH (3hr)

Certificate with 3 easy steps:
1-Completely view 22 minute lecture.
2-Watch the Practice Problem Videos as homework calculations are worked out step by step by the instructor.
3-Complete exam 70% minimum score.

There's not really 3 hours of work in this course, but we are awarding a very generous 3 hour certificate! This gives you credit for the lesson, the videos, and the homework.

SELF-ENROLL NOW ON BLACKBOARD

This monthly summary is published by the Industrial Hygiene Program Management Division for the Army Public Health Center.

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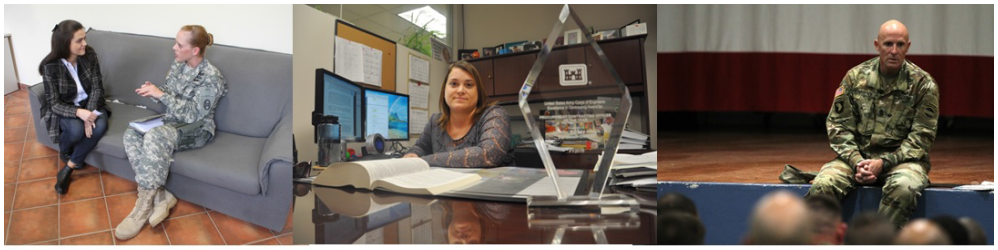

Professional Development and Career Programs

For Army Industrial Hygienists and Industrial Hygiene Technicians, Professional Development is through the Army Safety and Occupational Health (SOH) Career Program, known as Career Program 12 (CP-12).

Career Programs were established to ensure there is an adequate base of qualified and trained professional, technical, and administrative personnel to meet the Army`s current and future needs.

Planned training and development are essential elements to building a successful career.