

NIOSH Construction Program Update

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NIOSH Office of Construction Safety & Health

June 2022

6. Number of fatal injuries in construction by top 5 event or exposure categories, average of 2018-2020*

■ Other Event/Exposure

■ Top Event/Exposure Category



Primary Event or Exposure	Top Detailed Event or Exposure	Number of fatal injuries
Falls, slips, trips	Falls to lower level	376 (Top=358)
Transportation incidents	Roadway incidents involving motorized land vehicle	273 (Top=155)
Exposure to harmful substances/environments	Exposure to electricity	173 (Top=73)
Contact with objects and equipment	Struck by object or equipment	160 (Top=81)
Violence/other injuries by persons/animals	Intentional injury by person	61 (Top=56)
		0 100 200 300 400 500 600

Source: U.S. Bureau of Labor Statistics, 2018-2020 Census of Fatal Occupational Injuries.

Calculations by the CPWR Data Center.

*Cases missing event or exposure data were excluded.

12. Number of nonfatal injuries in construction by top 5 event or exposure categories, average of 2018-2020

■ Other Event/Exposure

■ Top Event/Exposure Category



Primary Event or Exposure	Top Detailed Event or Exposure	Number of nonfatal injuries
Contact with objects and equipment	Struck by object or equipment	25.0K (Top=15.1K)
Falls, slips, trips	Falls to lower level	22.9K (Top=12.1K)
Overexertion and bodily reaction	Overexertion involving outside forces	19.7K (Top=12.6K)
Exposure to harmful substances or environments	Exposure to other harmful substances	3.9K (Top=2.6K)
Transportation incidents	Roadway incidents involving motorized land vehicle	3.5K (Top=2.6K)
		0K 20K 40K 60K

Source: U.S. Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses, 2018-2020. Calculations by the CPWR Data Center.

NORA Construction Sector Work Groups



Preventing COVID-19

Co-Chairs:

Tracy Parsons

Ann Marie Dale

Stand Down March 2022

Preventing Falls

Chair:

Tom Shanahan

Preventing Struck-by

Co-Chairs:

Brad Sant

Alanna Klein

*If interested in joining, reach out to Liz Garza egarza@cdc.gov

NORA Construction Involvement with 2 National Safety Stand Downs



STOP. TALK. ACT.



April 11-15

FALLS




ROOFERS HAVE
10X the rate of fatal falls
of all other construction
occupations combined

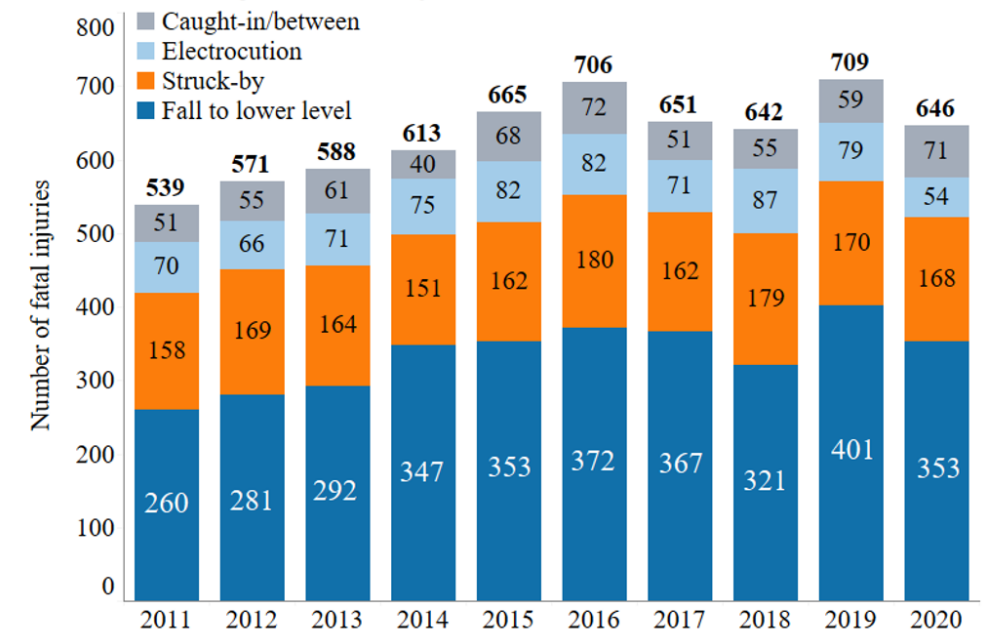
91%
of construction
companies have
**fewer than
20 employees**



Construction
companies with
**fewer than 20
employees**
account for
75%
of fatal falls



Number of fatal injuries caused by Construction Focus Four, 2011-2020



Source: U.S. Bureau of Labor Statistics, 2011-2020 Census of Fatal Occupational Injuries.

Source: U.S. Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

2022

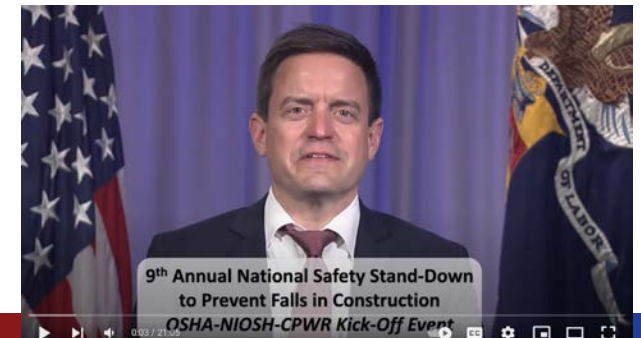
- 🔔 10-Year Anniversary of National Campaign to Prevent Falls in Construction
- 🔔 9th National Stand-Down to Prevent Falls
- 🔔 Focus on outreach to most at-risk
 - Small residential contractors, immigrant (Hispanic), roofer
 - [Other Languages | Stop Construction Falls](#)
 - En español (coming) NIOSH Construction YouTube Playlist

<http://stopconstructionfalls.com/>

<https://www.osha.gov/stop-falls-stand-down>

2021

- 🔔 5 NIOSH NORA Falls videos published in 2021
- 🔔 [CDC Construction Safety & Health YouTube Playlist](#)
- 🔔 [CPWR Fall Hazards & Prevention YouTube Playlist](#)

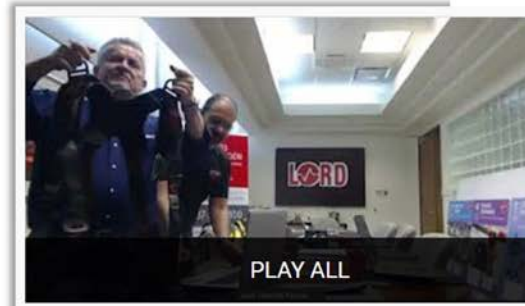


FALLS

The urls:

- [CDC Construction Safety & Health \(en español\) – YouTube Playlist](#)
- [CPWR Spanish language fall prevention playlist: https://youtube.com/playlist?list=PLuzTg2wYpXWXBW96Ak_Wi4EySZ-hDzKm9](https://youtube.com/playlist?list=PLuzTg2wYpXWXBW96Ak_Wi4EySZ-hDzKm9)

“De eso vivo, la construcción – de lo que hacemos, para mí es muy valioso que no haya accidentes.”



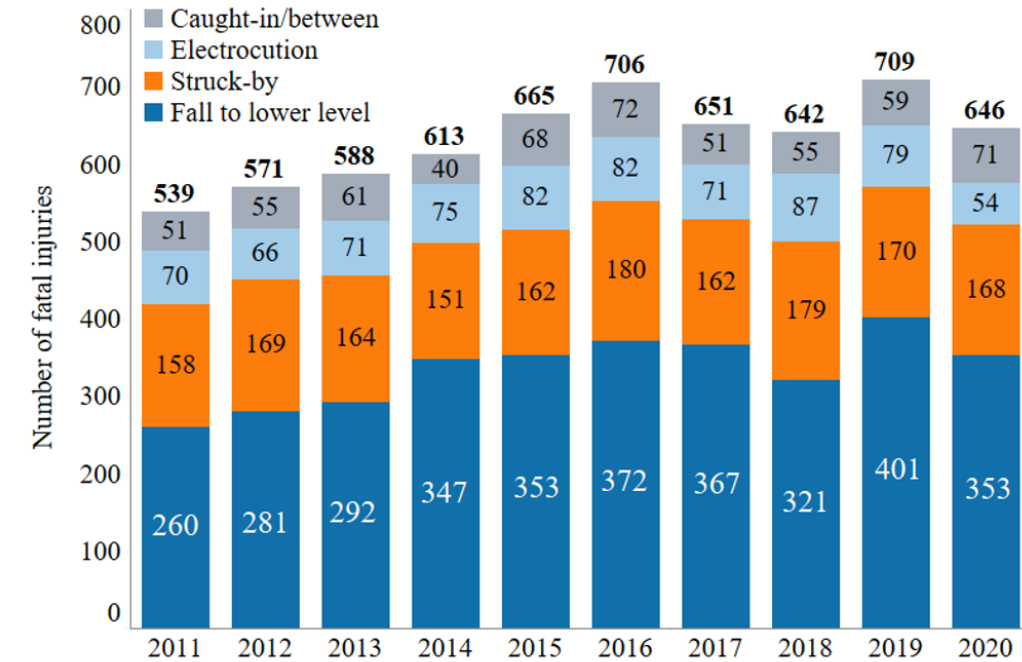
Prevencción de caídas



Construction Safety & Health (en español)



Number of fatal injuries caused by Construction Focus Four, 2011-2020



Source: U.S. Bureau of Labor Statistics. 2011-2020 Census of Fatal Occupational Injuries.

<http://stopconstructionfalls.com/>

<https://www.osha.gov/stop-falls-stand-down>

APRIL 11-15
2022

NATIONAL STAND-DOWN TO PREVENT STRUCK-BY INCIDENTS



- April 11, 2022 at 1 PM EDT – [Preventing Struck-by Incidents in Roadway Work Zones](#)
- 11 de abril de 2022 a las 3 PM EDT – [Prevención de Incidentes por Atropellos: Zonas de Trabajo, Equipos Pesados e Impacto de Objetos](#)
- April 13, 2022 at 2 PM EDT – [What's the risk? Best Practices to reduce the likelihood of struck-by injuries from heavy equipment and crane activities](#)
- April 14, 2022 at 2PM EDT – [Preventing Struck-by Incidents from Dropped Tools & Other Objects](#)

STOP. TALK. ACT.

<https://www.cpwr.com/struck-by-hazards>



Apprentice Ironworker Struck By Steel Wedge Seriously Injured...

INCIDENT FACTS

REPORT #: 71-217-2022s

REPORT DATE: February 28, 2022

INCIDENT DATE: May 24, 2017

VICTIM: 25 years old

INDUSTRY: Structural steel and precast concrete contractors

OCCUPATION: Apprentice ironworker

SCENE: New construction of cold storage facility

EVENT TYPE: Struck by



https://www.lni.wa.gov/safety-health/safety-research/files/2022/71_217_2022_IronworkerStruckByWedge.pdf

Apprentice Ironworker Struck By Steel Wedge...



Investigators found:

- The employer had not provided workers with a means of securing wedges from falling or being dropped.
- The employer had not used red caution tape to keep workers out of the area below where the ironworkers were working.
- There was not a designated water station.
- The ironworkers did not expect anyone to be working below them because there were no other workers in the area.



Photo 2. Interior view of incident scene at the cold storage facility under construction.



Photo 3. Area where the apprentice ironworker went to retrieve a bottle of water when he was struck by the dropped steel wedge.

Apprentice Ironworker Struck By Steel Wedge...



Recommendations

Prepare tools and equipment

- Require that wedges and other tools used by workers at heights have lanyards, tethering devices, holsters, buckets and other devices to secure them.
- Add attachment points to wedges if they do not have them so they can be secured to a tether.
- Ensure that tethering systems are ANSI/ISEA 121-2018 Dropped Object Prevention Solutions compliant.
- Locate employee water stations away from active work areas.
- Provide safety training to new workers to ensure they understand the hazards associated with the work site.



Centers for Disease Control and Prevention

MMWR

Morbidity and Mortality Weekly Report

Weekly / Vol. 69 / No. 3

January 24, 2020

Suicide Rates by Industry and Occupation — National Violent Death Reporting System, 32 States, 2016

Cora Peterson, PhD¹; Aaron Sussell, PhD²; Jia Li, MS³; Pamela K. Schumacher³; Kristin Yeoman, MD²; Deborah M. Stone, ScD¹

<https://www.cdc.gov/mmwr/volumes/69/wr/pdfs/mm6903-H.pdf>

Partnering to Prevent Suicide in the Construction Industry – Building Hope and a Road to Recovery

September 9, 2020 by Trudi McCleery, MPH; Scott Earnest, PhD, PE, CSP; Christina Socias-Morales, DrPH; and CDR Elizabeth Garza, MPH, CPH

<https://blogs.cdc.gov/niosh-science-blog/2020/09/09/suicide-in-construction/>



- The construction industry has one of the highest suicide rates compared to other industries. In 2016, the suicide rate for men in construction and extraction occupations was:
 - almost twice the total suicide rate for civilian working men (16-64 years old) in 32 states
 - 5 times greater than the rate for all fatal work-related injuries in the construction industry in 2018
- There are important steps that workers and employers should take to recognize the warning signs and help prevent suicides. The goal of suicide prevention is to reduce factors that increase risk and enhance factors that promote resilience



CONSTRUCTION INDUSTRY ALERT



Suicides at Work in Construction,* 2018-2020

REPORT #: 47-30-2021

REPORT DATE: April 6, 2021

- More construction workers have died by suicide at work in the last three years than workers in any other industry
 - The number of construction worker suicides at work increased each year
- For the construction industry, mental health awareness and suicide prevention are just as important as preventing injuries. Construction company owners, managers, supervisors, trade associations, unions, and workers can take steps to save lives by addressing suicide prevention in the industry



DATA BRIEF

SUICIDES IN MASSACHUSETTS BY INDUSTRY & OCCUPATION: 2016-2019

Occupational Health Surveillance Program, Massachusetts Department of Public Health


FEBRUARY 2022

- Purpose - provide information on the magnitude, trends, and risk factors for suicides in Massachusetts
 - Rate of suicide is not the same for all occupations and industries, suggesting that work should be considered when planning outreach initiatives and interventions
- Among occupation groups, Construction and Extraction group had the highest number of suicides (n=316), and the highest suicide rate (49.2 deaths/100,000 workers)

<https://www.mass.gov/doc/suicides-in-massachusetts-by-industry-occupation-2016-2019-0/download>



Identifying Occupation Groups for Suicide Prevention: A Statewide Data Linkage Study

Morissa Henn , Catherine Barber, Wilson Zhang, Michael Staley, Deborah Azrael, and Matthew Miller

- Objective

- To identify and describe suicide rates by occupation category in Utah and identify the occupation category that had the state's highest rate and highest number of suicides
 - Construction and Extraction

- Findings

- Construction and Extraction:
 - Stands out as an occupation group with a very high number and rate of suicides
 - Is an important occupation group to target finite prevention resources and comprehensive strategies
- Two-thirds of male decedents in Construction and Extraction had a substance abuse problem

Mental Health, Suicide Prevention, & Substance Use

- BTEA Northeast's Second Annual Building Trades National Recovery Week, a national substance use awareness campaign occurred the week of April 25, 2022, continuing through the week with in-person and virtual educational sessions and concluding with a National Jobsite Stand Down. Recovery Week featured a full program of honest conversations that invite industry leaders, medical experts, mental health counselors and special guest speakers whose lives were impacted by addiction.



[Home](#) [Program](#) [Speakers](#) [Journey](#) [Partner](#) [Resources](#) [Photo Gallery](#) ▼

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NIOSH Office of
Construction Safety
and Health

JOIN BTEA NORTHEAST FOR OUR ANNUAL
BUILDING TRADES NATIONAL RECOVERY WEEK
APRIL 25-29, 2022

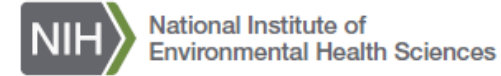


Opioids in Construction



Event registration:

https://nih.zoomgov.com/webinar/register/WN_zOvObVYmRFeVjPHqWhhl-g



Opioids and the Workplace, Risk Factors and Solutions

Thursday, June 9, 2022 • 2:00 pm – 3:30 p.m. EDT

A special issue of *New Solutions: A Journal of Environmental and Occupational Health Policy* includes a focus on opioids and the workplace, along with risk factors and solutions. The issue features research that addresses the convergence of COVID-19 and the opioid crisis, high-risk occupations, and health inequalities in the workplace.

The authors highlight strategies such as employer and union programs, peer advocacy, and worker training. Other interventions include protecting first responders and site clean-up workers, improving working conditions for substance use treatment workers, and ensuring health parity for addiction treatment and recovery services.

During this webinar, some of the authors will share potential strategies to reduce the negative impact of workplace factors on the opioid crisis and

reform punitive policies into supportive ones. These strategies include policy changes at the workplace, community, state, and federal levels to begin or expand interventions, as well as training, research, and funding opportunities.

Presenters:

- Jonathan Rosen, National Clearinghouse for Worker Safety and Health Training
- Paul Landsbergis, SUNY Downstate Health Sciences University
- Aurora Le, University of Michigan
- Rachael Cooper, National Stigma Initiative - Shatterproof
- Jodi Sugarman-Brozan, Massachusetts Coalition for Safety & Health
- Jerry Marcil, Connecticut Counseling & Wellness, Consultant to Operating Engineers International Union Local 478

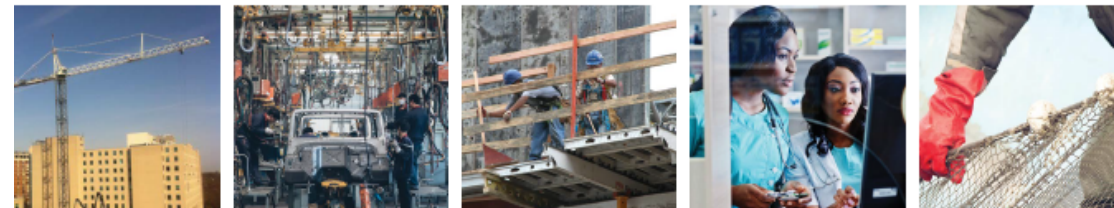
English/Spanish interpretation will be available during this webinar.

Event registration: https://nih.zoomgov.com/webinar/register/WN_zOvObVYmRFeVjPHqWhhl-g



With support from the NIH Office of Disease Prevention

Individuals with disabilities who need accommodation to participate in this event should contact Kerri Voelker at 919-794-4710 or kerri.voelker@nih.gov. TTY users should contact *NIH Interpreting Services*. Requests should be made by June 2, 2022.





Cannabis and Work: Implications, Impairment, and the Need for Further Research

June 15, 2020 by John Howard, MD; L. Casey Chosewood, MD; Lore Jackson-Lee, MPH; and Jamie Osborne, MPH, CHES®

- Knowledge Gaps - Despite the evolving landscape of legalization and commercialization, there are gaps in the knowledge guiding workplace policies surrounding marijuana, including those related to worker safety and health and privacy and confidentiality issues:
 - comprehensive impairment policies and testing methodology;
 - state antidiscrimination or reasonable accommodation provisions for state-approved medical marijuana;
 - awareness and delegation of safety-sensitive roles and tasks; and
 - employer liability



Marijuana and Driving: How to Keep Your Fleet's Drivers Safe

Marijuana use in the United States is increasing as more states legalize its medical and recreational use. Managing motor vehicle crash risks associated with marijuana impairment is important, as marijuana impacts a driver's cognitive abilities. Other than alcohol, marijuana is the most frequently reported drug found in post-crash testing. This substance needs to be addressed as part of all workplace motor vehicle safety programs.

How Marijuana Affects Driving

Driving while impaired by any substance is dangerous. The delta-9-tetrahydrocannabinol (THC) contained in marijuana is a psychoactive (mind-altering) compound that affects areas of the brain that control the body's movements, balance, coordination, memory, and judgment. It can impair coordination, distort perception, and lead to memory loss and difficulty in problem-solving. Specific to driving, THC can slow reaction times and reduce the ability to make decisions.

Studies have shown that the risk of being involved in a crash increases after marijuana use. Still, marijuana's specific contribution to crash risk is unclear because it can be detected in body fluids for days or even weeks after use.



The NIOSH Future of Work Initiative Research Agenda



Centers for Disease Control
and Prevention
National Institute for Occupational
Safety and Health

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The Changing Climate

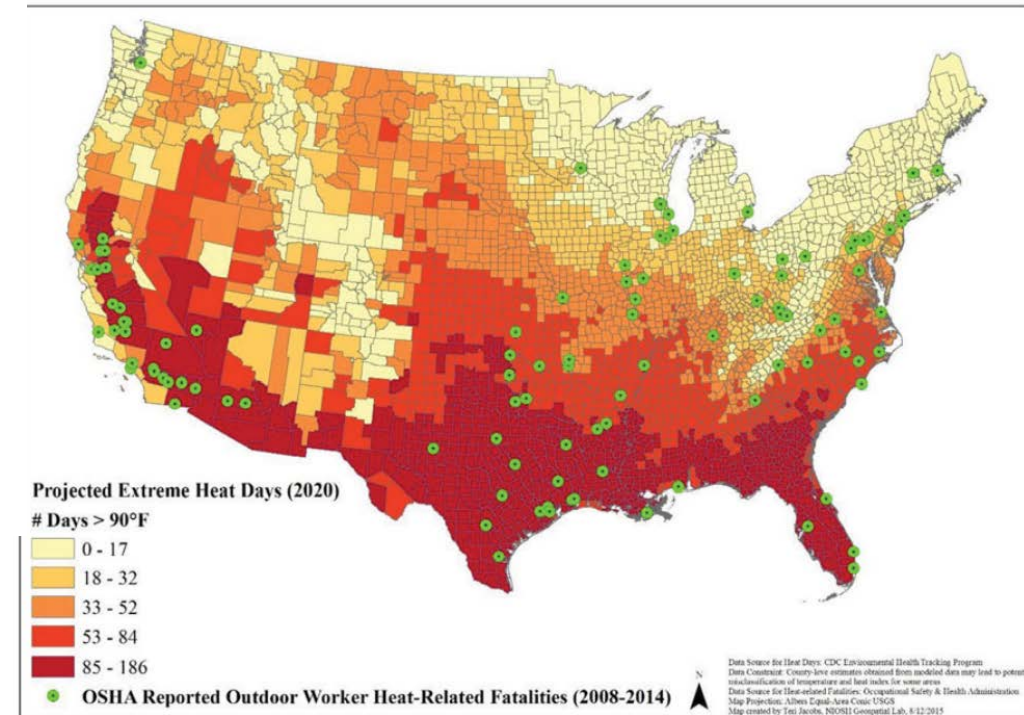
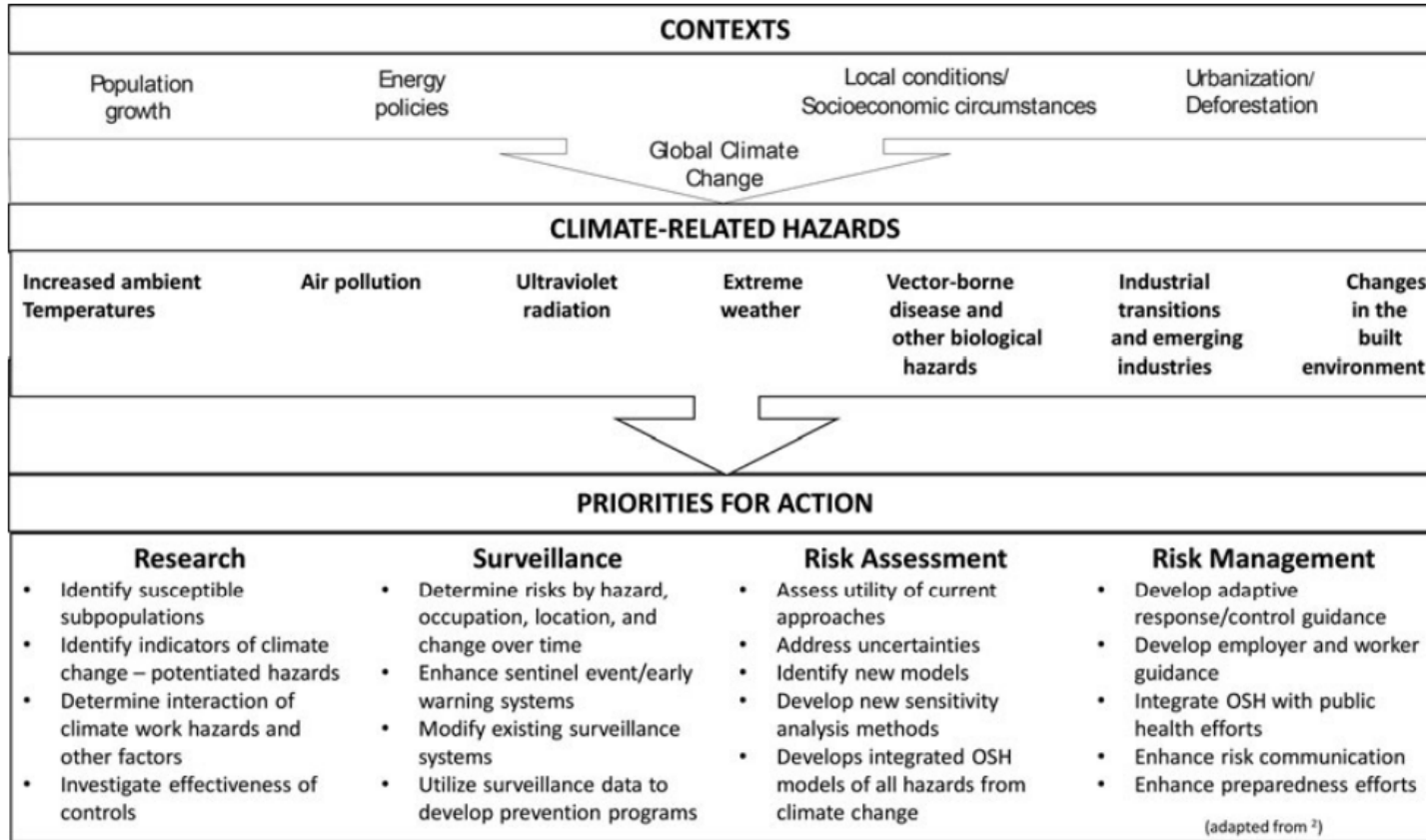


Figure 1. Individual outdoor heat-related fatalities 2008–2014 on projection of number of days above 90°F in 2020.



Collaborating on Heat Illness Prevention Initiatives

- Three-part seminar series May 2022
- <https://nsec.niu.edu/nsec/webinars/index.shtml>



NORTHERN ILLINOIS UNIVERSITY

National Safety Education Center



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Region V OSHA Heat Initiative Webinar Series

Act Now to Prevent Heat Illness at Work

Join us for a free three-part webinar series. Employees exposed to extreme heat and humid working conditions are at risk - both indoors and outdoors. These training sessions offer critical guidance on how to identify heat stress, how it affects the human body, and how to prevent it on the job.

Collaborating on Heat Illness Prevention Initiatives



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Tuesday, May 10, 2022, 10-11 a.m. CT

- **Welcome and Opening Remarks** with Douglas L. Parker, assistant secretary of labor, USDOL OSHA. Discuss the importance of OSHA's Heat Illness Prevention Campaign
- **Basics of Occupational Exposure to Heat** with Douglas Trout, M.D. NIOSH Office of Construction Safety and Health. Learn to recognize the sources as well as signs and symptoms of heat-related illness and become familiar with elements of a workplace heat illness prevention program.

Tuesday, May 17, 2022, 10 -11 a.m. CT

- **OSHA National Emphasis Program: Outdoor and Indoor Heat-Related Hazards** with Gary Orr, Office of Health Enforcement, USDOL OSHA. Overview and how to comply with OSHA's new heat emphasis program designed to identify, eliminate, and reduce worker exposures to work-related heat illness in general industry, construction, maritime and agriculture.
- **Overview of enforcement of heat stress case(s)** with Bogdan Catalin, Ph.D. Industrial Hygienist, USDOL OSHA. Overview of enforcement heat stress cases highlighting the importance of being acclimatized and recognizing the signs and symptoms of heat stress and providing timely first-aid.

NIOSH & OSHA Renew Partnership Agreement

On April 7, NIOSH Director Dr. John Howard and Assistant Secretary of Labor Doug Parker renewed the NIOSH and OSHA partnership agreement for five years. This partnership agreement began in 2014 to foster increased collaboration between the agencies, streamlining the development of OSHA's occupational safety and health standards. The current Memorandum of Understanding (MOU) provides for regular meetings between NIOSH and OSHA senior staff; coordinating response activities during emergencies; sharing information, data, and tools to assess occupational safety and health issues; and developing joint-publications in areas of mutual interest.



John Howard and Doug Parker (front l to r) are joined by Frank Hearl and Maria Strickland of NIOSH and Jim Fredrick of OSHA (back l to r) at the signing ceremony. Photo by NIOSH.



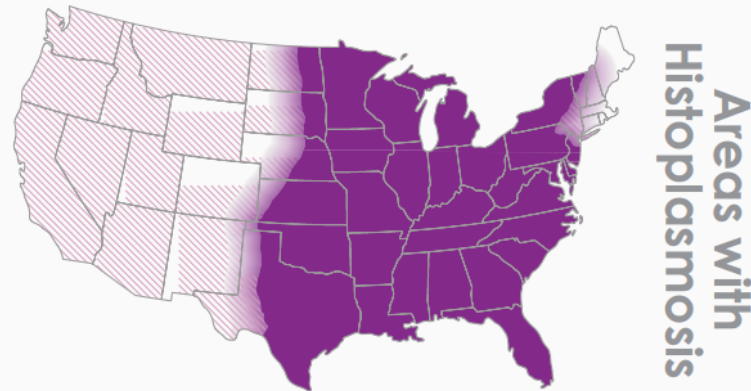


- 👷 Welder's Anthrax (Apr 2022)
- 👷 Falls Campaign 2022: Making Research Work (Apr 2022)
- 👷 Preventing Struck-by Fatalities Related to Excavator Quick Couplers, Buckets, and Attachments (Mar 2022)
- 👷 Partnering to Design Safe and Healthy Workplaces for the Construction Workforce (Feb 2022)
- 👷 Exoskeletons: Potential for Preventing Work-related Musculoskeletal Injuries and Disorders in Construction Workplaces (Feb 2022)

What Workers Should Know about Histoplasmosis

What is histoplasmosis?

Histoplasmosis is an infection caused by a fungus called *Histoplasma capsulatum*. The fungus lives in the environment, particularly soil that contains large amounts of bird or bat droppings. People can get histoplasmosis after breathing in the very small fungal spores (also known as conidia) from the air. In the United States, *Histoplasma* mainly lives in the central and eastern states, particularly areas around the Ohio and Mississippi River Valleys.



This map of the United States shows CDC's current estimate of where the fungi that cause histoplasmosis lives in the environment. Darker shading shows areas where Histoplasma is more likely to live and diagonal shading shows the potential range of Histoplasma. These fungi are not distributed evenly in the shaded areas, might not be present everywhere in the shaded areas, and can also be outside of the shaded areas.

What are the symptoms of histoplasmosis?

Most people who breathe in spores don't get sick, but those who do may have a fever, cough, and fatigue. Symptoms usually appear between 3 and 17 days after a person breathes in the fungal spores. In some people, the infection can become severe and spread from the lungs to other parts of the body. This is more common in people with weakened immune systems or other medical conditions.



N95 Respirators and Essential Workers



Health Security
 Volume 20, Number 2, 2022 © Mary Ann Liebert, Inc.
 DOI: 10.1089/hs.2021.0166

Open camera or QR reader and scan code to access this article and other resources online.

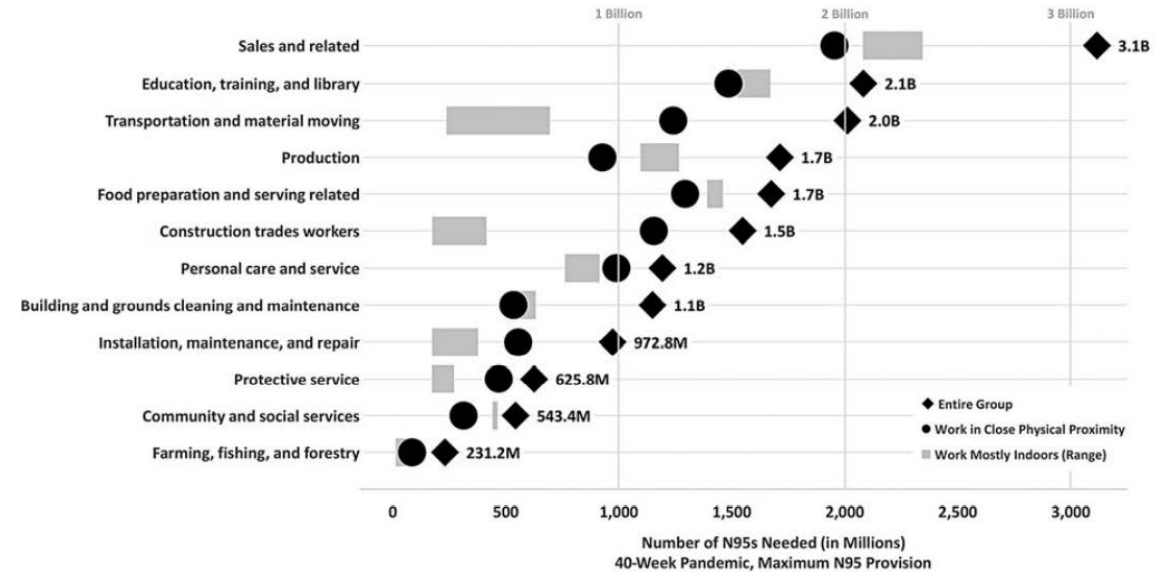


ESTIMATED N95 RESPIRATOR NEEDS FOR NONHEALTHCARE ESSENTIAL WORKERS IN THE UNITED STATES DURING COMMUNICABLE RESPIRATORY INFECTIOUS DISEASE PANDEMICS

Ethan D. Fechter-Leggett, Kathleen B. Fedan, Jean M. Cox-Ganser, Martin I. Meltzer, Bishwa B. Adhikari, and Chad H. Dowell

Early in the COVID-19 pandemic, demand for N95 respirators far exceeded the supply, leading to widespread shortages. Initially, the US Centers for Disease Control and Prevention did not recommend N95 respirators in nonhealthcare settings, in order to reserve them for healthcare workers. As N95s became more available, the recommendations were updated in May 2021 to include N95 respirators for nonhealthcare settings. In this study, we estimated the numbers of N95s needed for nonhealthcare essential workers in the United States. This information is valuable for crisis preparedness and planning for future large-scale communicable respiratory infectious disease epidemics or pandemics. We adapted a spreadsheet-based tool originally built to estimate the potential demand for N95 respirators during an influenza pandemic. We defined nonhealthcare essential occupations according to the 2020 US Department of Homeland Security guidance and used US Bureau of Labor Statistics employment numbers and Occupational Information Network data as model parameters. We modeled minimum, intermediate, and maximum N95 provision scenarios (as 1, 2, and 5 N95 respirators, respectively) per week per worker, for pandemic durations of 15 and 40 weeks. For 85.15 million non-

FECHTER-LEGGETT ET AL





ON THE SAFE SIDE

A podcast from **Safety+Health**.



In [Episode 27](#), the *S+H* editorial team discusses lightning safety for workers as the summer months approach. The team is also joined by NIOSH social scientist Gigi Petery, co-director of the agency's National Center for Productive Aging and Work, to discuss how aging workers can enjoy success on the job.

[Listen to the podcast](#)

New NIOSH Products

PREVENTION GOES A LONG WAY
CONSTRUCTION INJURIES CAN LEAD TO OPIOID ADDICTION

Month 2022

Construction workers have **2.5x** more **overdose deaths** at work than any other industry.

Invest in workplace safety now to **PREVENT INJURIES** from leading to overdose deaths down the road.

Musculoskeletal disorders hurt your employees and can lead to opioid misuse disorder

NEXT EXIT: Healthcare

SICK LEAVE allows workers TIME TO HEAL

NEXT EXIT: Paid sick leave

NEXT EXIT: Alternative pain treatments such as acetaminophen, acupuncture, and massage

DRAFT

STOP construction injuries from leading to opioid addiction

Opioid misuse disorder and overdoses cost the US economy: \$471 billion for opioid use disorder \$550 billion for opioid overdose death \$1.012 trillion total cost to the US economy

NEXT EXIT: Paid sick leave

Injuries and opioid misuse disorders can be prevented! **INVEST IN SAFETY.**

- Learn more:
- Opioids in the Workplace
 - CPWR: The Center for Construction Research and Training

Invest in workplace safety to prevent injuries that lead to opioid misuse down the road.



Sources:
CPWR. Data calculations by the CPWR Data Center. <https://www.cpwrt.com/research/data-center/>.
The Center for Construction Research and Training, Data Center.
BLS (2020). Table A-9. Fatal occupational injuries by event or exposure for all fatal injuries. Injuries, Illnesses, and Fatalities. Washington, DC: Bureau of Labor Statistics. <https://www.bls.gov/iif/oshwc/osh/otb0343.htm>.



ROOFING SAFETY: WALK THIS WAY!

Month 2022

Every year about **500 roofers are injured and 70 roofers die** from falls. Walking this way with the proper shoes can improve your balance and help prevent falls.

WALKING UP A ROOF
Zigging and zagging when walking up a sloped surface reduces the incline and can help you control your balance.

WALKING ACROSS A SLOPED ROOF
Walk with your feet wide apart and take shorter steps to improve your balance.

Walking the right way is no substitute for fall protection.

Choose the PROPER shoes for walking on roofs:

- Choose lighter boots with non-slip soles.
- Wear puncture resistant soles.
- Seek out specialty "roofer shoes" with nonslip soles, moderate stiffness, a tight fit, rear motion control, and front end flexibility.

Choose the PROPER shoes for walking on flat, narrow planks:

- Choose high-cut, above ankle, work shoes or safety boots—they provide the most balance of any shoe type.
- Avoid low-cut work shoes that are well padded—they will reduce your ability to control your balance.
- Avoid athletic shoes on planks.

Join the Campaign to Stop Construction Falls!

www.stopconstructionfalls.com

FLSA, PROTECT, TRAIN

CDC

NIOSH

NORA

CPWR THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

Source:
BLS (2020). Table A-5. Fatal occupational injuries by occupation and event or exposure, all United States, 2020. Washington, DC: Department of Labor, Bureau of Labor Statistics. <https://www.bls.gov/iif/oshwc/osh/otb0341.htm>
Burlinson, Corey M., Wade C. Woodall DE (2020). Inactivation angles during cross-slope roof walking. Saf Sci 122:210403. <https://doi.org/10.1016/j.ssci.2020.104947>
Dong RA, Wu JJ, Dai F, Bradford SP (2021). An alternative method for analyzing the slip potential of workers on sloped surfaces. Saf Sci 122:210424. <https://doi.org/10.1016/j.ssci.2020.105056>
Srinivasan P, Maloo H, Powers J, Aronson D, Arsenault A, Kau TY, Caruso D (2006). Footwear effects on walking balance at elevation. Ergonomics 49(12):1885-1895. <http://dx.doi.org/10.1080/00140130600591625>

#StandDown4Safety

FY 23 Funded CON-related Small NORA Research projects



FY23 Small Projects Selected for Funding

DLO	Project Officer(s)	IFR Title
DSR	Justin Haney	Investigation on Safety and Trust when Working Alongside Industrial Mobile Robots
DSR	Christopher Pan	Air-Bubble Cushioning Liners to Improve Construction Helmet Shock Performance
HELD	Scott Breloff	Evaluation of Stability, Slipping, & Intervention Methods for Roofing Workers
HELD	Erik Rader	Reexamination of the NIOSH Lifting Equation Calculator in a Research Mouse Model
HELD	Xueyan Sherry Xu Ren Dong	Technology Development and Evaluation for Controlling Hand-Arm Vibration Exposure
HELD	John Wu	Biomechanical Evaluation of Knee Savers for Reducing Joint Load During Squatting
RHD	Aleksandr Stefaniak	Recycled Plastic Mechanical Properties as Exposure Predictors for 3-D Printing



[CDC](#) > [NIOSH](#) > [Clearinghouse Home](#)

About the Clearinghouse

The State-based Occupational Health Surveillance Clearinghouse is a collection of public health materials produced and shared by state programs*. The materials in the Clearinghouse concentrate on workplace safety and health issues.

The Clearinghouse offers a way for states to increase outreach and distribution of workplace safety and health products for free. It also allows access to unpublished materials produced by the states that address job-related public health issues. Within the U.S., more than half of states regularly contribute materials. Any state agency or program can contribute to the Clearinghouse, though materials added must relate to occupational safety and health. Products vary, but generally include:

- Annual reports
- Brochures
- Case reports
- Journal articles
- Multi-media (posters, videos, presentations, audio files, etc.)



Search Clearinghouse By

Keywords +

States +

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Cross Sectors +

Document Types +

Page 6 of 334 matching documents.

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Publication Date ▾

[Spotter Crushed between Excavator Bucket and Trench Box Slideshow](#)

A 23-year-old construction worker was severely injured when he was pinned between the bucket of an excavator and a trench box. He was spotting the lowering of a sewer pipe.

Washington – Case Report – 6/5/2019 – 0 Views

[Window Cleaner Falls 50 Feet Slideshow](#)

A 70-year-old self-employed window cleaner died when he fell 50 feet while cleaning the windows of a public library building. He had been cleaning windows for 50 years.

Washington – Case Report – 5/8/2019 – 0 Views

[Construction Fall Injuries](#)

Hospitalized Falls in Construction, by Employer Size

Washington – Other – 5/8/2019 – 0 Views

[Ironworker Falls 80 Feet through Bent Plate Gap](#)

A 29-year-old ironworker was severely injured after falling through a bent plate gap and landing 80 feet below in a debris net.

Washington – Case Report – 4/3/2019 – 0 Views



NOIRS

National Occupational Injury
Research Symposium



DAY 1: TUESDAY, MAY 10, 2022

12:00 – 1:00 pm **OPENING PLENARY SESSION**

Preventing Workplace Injuries in a Changing World

Opening

Dawn N. Castillo, MPH
Director, Division of Safety Research
National Institute for Occupational Safety and Health

Plenary Speakers

John M. Howard, MD
Director
National Institute for Occupational Safety and Health

Lorraine M. Martin, MS
President and CEO
National Safety Council

Ron Gantt, M Eng, CSP
Director and Principal Consultant
Reflect Consulting Group

D3 **Understanding and Visualizing Recent Construction Safety and Health Trends**

Moderator: Richard Rinehart

- 12:00 D3.1 Visualizing and Disseminating Data on Fatal and Severe Injuries in the U.S. Construction Industry
William Harris
- 12:15 D3.2 Mental Health Among Construction Workers in the United States
Samantha Brown
- 12:30 D3.3 Prescription Opioid Use and Stigmatized Attitudes Among Apprentice Construction Workers
Ann Marie Dale

A3 **Research to Practice in the Construction Industry**

Moderator: Scott Earnest




- 1:00 A3.1 Stand-Downs to Raise Awareness and Prevent Fatalities in Construction
Elizabeth Garza
- 1:15 A3.2 Identifying Common Root Causes of Work-Related Falls from Heights Through Self-Reported Data from Individuals Who Experienced, Witnessed, or Investigated Fatal and Nonfatal Falls
Jessica Bunting
- 1:30 A3.3 Behavioral Economics in the Construction Industry: Use of Choice Architecture Techniques to Accelerate Acceptance and Adoption of Health and Safety Research Findings and Solutions
Sue Ann Sarpy

PREVENTION THROUGH DESIGN (PtD)

Series of workshops funded by NIOSH in collaboration with Arizona State University

- 3rd Workshop May 25-26 '22

- Goals

-  To drive the implementation of PtD at large industry organizations
-  To advance knowledge in PtD
-  To promote the instruction of PtD in construction management and construction engineering programs at US universities

Prevention through Design | (asu.edu)

 **Arizona State University**

Prevention through Design

Workshop 2022

PtD Journey from What to How

Continuing Education Unit (CEU) credits will be offered
Presentations will be recorded and accessible until June 25, 2022

ONLINE WORKSHOP

Wed, May 25, 2022
Thu, May 26, 2022
8 am – 1 pm
Pacific Daylight Time (GMT-7)

NIOSH-funded Prevention through Design
award #1 R130H011707-01-00

CONTACT:
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G. Edward Gibson Jr, Ph.D., PE
GEwardGibsonJr@asu.edu



KEYNOTE SPEAKERS

Chuck Gessner
Safety Manager, Vera C. Rubin Observatory

Alistair Gibb, Ph.D.
Emeritus Professor, Loughborough University

Andrew F. Griffith, Ph.D.
Director, Independent Project Analysis Institute

Matthew R. Hallowell, Ph.D.
Professor, University of Colorado at Boulder

Billy Hare, Ph.D.
Professor, Glasgow Caledonian University

Carisa Harris-Adamson, Ph.D., CPE
Associate Professor, University of California San Francisco

Joseph Hitt, Ph.D.
Co-Founder and CEO, GoX Labs

Jason Hopper
Director of Design for Manufacture and Assembly (DFMA), Mortenson

Justin Riley
Field Operations Manager, Mortenson

Thomas Sugar, Ph.D., PE
Professor, Arizona State University

Jochen Teizer, Ph.D.
Professor, Technical University of Denmark

AGENDA
<https://ptd.engineering.asu.edu/ptd-workshop-2022/>

About the Workshop:

NIOSH has funded a series of annual workshops to advance PtD knowledge, promote the implementation of PtD, and promote the instruction of PtD in construction management and related engineering programs at US colleges and universities. Keynote videos and details of these workshops can be found at <https://ptd.engineering.asu.edu/>.

This third virtual, interactive PtD workshop will focus on HOW to implement PtD practices to increase safety, efficiency, and profitability while striving for zero accidents and injuries. Examples of PtD applications, including case studies and benchmarking results, will be provided to demonstrate how PtD enhances a project's safety and provides a safe environment for workers and end-users. Moreover, this workshop will explore how various emerging technologies such as wearables, exoskeletons, and Building Information Modelling (BIM) improve workers' safety, and contribute to innovative PtD practices.

This 2022 Workshop will create an excellent opportunity for engineers, architects, contractors, construction companies, manufacturers, project owners, insurers, and academia to exchange and leverage their experiences and expertise in terms of how PtD practices are implemented for a safer environment.

REGISTER HERE

New NIOSH Products

<https://www.cdc.gov/niosh/construction>

Directory of Construction Resources

COVID-19 guidance

Check out our [NIOSH COVID-19 Science Blogs](#). Learn more by visiting our [NIOSH National Construction Center COVID-19 Resources](#).

Suicides in Construction

Learn more by visiting our [NIOSH National Construction Center Suicide Prevention Resources](#).

Opioids in Construction

Learn more by visiting our [NIOSH National Construction Center Preventing Opioids Deaths Resources](#). Watch our new videos series: Opioids in the Construction Industry.

1. [The Evolution of a Crisis](#)
2. [Impacting Lives](#)
3. [Pathways to Recovery](#)

Spotlights

- **NEW** [2022 Kickoff Webinar](#)
- [May 2-6, '22 Falls Stand-Down](#)
 - [2022 Falls Blog](#)
- [Infrastructure Resources: Keeping Construction Workers Safe](#) 3/22
- [Respiratory Protection Toolbox Talk](#) 2/22
- [Exoskeletons: Potential for Preventing WMSDs](#) 2/22
- [Partnering to Design Safe and Healthy Workplaces](#) 2/22
- [Using CPWR's Small Study Program](#) 10/21

National Campaign to Prevent Falls



Falls are the #1 cause of construction fatalities. Join the National Campaign to Prevent Falls. Click [here](#) to learn more. [Infographics](#)

Trench Safety: Before You Dig It, Plan It!



Trench Safety - full factsheet

[English JPG](#) [Spanish JPG](#)
[English PDF](#)



NIOSH Science Blogs: Construction



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Questions?



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For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

