Welcome to Today’s Webinar on Getting Ready for the 2019 Safety Stand-Down

Presented by
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Chris Trahan Cain, Executive Director, CPWR
Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com

G. Scott Earnest, Ph.D., P.E., C.S.P.
Deputy Director, CSH
National Institute for Occupational Safety and Health

March 20, 2019 CPWR Webinar
Goal
To provide small residential construction contractors and owners with the information, motivation, and support they need for them to create the necessary conditions for their workers to work safely at heights.

stopconstructionfalls.com
How the Campaign Developed

- NORA Construction Sector Council-led
- Campaign leaders: NIOSH, OSHA and CPWR—The Center for Construction Research and Training
- Evidence-based campaign
- Evaluation essential to demonstrate success
Intended Audiences

• Primary: Small residential construction contractors
• Secondary: Supervisors and foremen for these contractors
• Tertiary: Workers for these contractors, including Spanish speakers
Why Focus on Falls?

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Fatal Falls to a Lower Level in Construction, by Primary Source, 2011-2015 total

Total = 1,533 deaths

- Roofs 33.3%
- Ladders 23.8%
- Scaffolds / staging 14.8%
- Machinery 4.4%
- Floors / ground surfaces 4.4%
- Vehicles 4.0%
- Towers / poles 2.0%
- Other 13.0%


CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Distribution of Fatalities from Falls to a Lower Level in Construction, by Establishment Size, 2011-2015 total, Wage-and-Salary Workers)

Total = 824 deaths

- 1-10 employees: 61.4%
- 11-19 employees: 13.2%
- 20-49 employees: 10.7%
- 50-99 employees: 9.7%
- 100+ employees: 5.0%


Campaign to Prevent Falls in Construction: Safety Pays, Falls Cost.
Number & Rate of Work-related Fatalities from Falls to a Lower Level in Construction, 2011-2015


![Bar chart showing number of fatal injuries by occupation and injury rate per 100,000 FTEs.]

**Number of fatalities**
- Roofer: 291
- Ironworker: 123
- Power-line installer: 165
- Welder: 165
- Helper: 33
- Painter: 17
- Foreman: 17
- Drywall: 17
- Laborer: 17
- Brickmason: 17
- Carpenter: 17
- Heat A/C mechanic: 17
- Electrician: 17
- Plumber: 17
- Construction manager: 17

**Rate per 100,000 FTEs**
- Roofer: 34.2
- Ironworker: 19.9
- Power-line installer: 10.2
- Welder: 7.6
- Helper: 7.0
- Painter: 5.7
- Foreman: 5.6
- Drywall: 4.9
- Laborer: 4.8
- Brickmason: 4.7
- Carpenter: 3.3
- Heat A/C mechanic: 2.8
- Electrician: 2.5
- Plumber: 0.7
- Construction manager: 0.4

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Falls Prevention Campaign –
Our Messages

PLAN ahead to get the job done safely
PROVIDE the right equipment
TRAIN everyone to use the equipment safely
5th year – National Stand Down to Prevent Falls in Construction

Construction contractors can prevent falls from heights. Plan ahead for safety, provide the right equipment, and train workers to use the equipment safely. Join the National Campaign to Prevent Falls in Construction and take part in the National Stand-Down.

In 2016, there were 370 fall fatalities out of 991 total fatalities in construction. Those deaths were preventable. There were more fatal injuries in construction than any other industry in the United States in 2015, accounting for 20% of the nation's 4,836 work-related deaths that year. In 2015 alone, 57% of construction deaths occurred in establishments with fewer than 20 employees. Falls account for 37% of the work-related deaths that year.

Photo credit: Turner Construction/Earl Dotter/CPWR

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
CONSTRUCTION SAFETY AND HEALTH

National Campaign to Prevent Falls in Construction

Falls are the number one cause of construction-worker fatalities, accounting for one-third of on-the-job deaths in the industry. On April 26, 2012, NIOSH, OSHA, and CPWR-The Center for Construction Research and Training together launched a National Campaign to Prevent Falls in Construction. The Campaign seeks to raise awareness among workers and employers about common fall hazards in construction, and how falls can be prevented.

Join the campaign and take part in the 2019 National Safety Stand-Down to Prevent Falls in Construction: May 6–10, 2019

- Register for the March 22nd Stand-Down NIOSH-OSHA-CPWR Webinar
- "Order your free 2019 Stand-Down hard hat stickers and fall-related Hazard Alert Cards here"
- Download the 2019 Stand-Down poster (English and Spanish)
NIOSH Construction Falls Campaign site

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Social Media & Webinar

#StandDown4Safety #StopFalls

@CPWR @NIOSHConstruct @OSHA_DOL

Construction @ NIOSH 📺 @NIOSHConstruct - Mar 9
Coming soon - don’t miss! #StandDown4Safety planning webinar 2-3pm ET led by @NIOSHConstruct @OSHA_DOL and @CPWR. Highlight successes as well as plans for May 7-11 2018 Stand-Down. Register here bit.ly/2FeJ0mm

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
5th Annual National Stand Down to Prevent Falls in Construction

Posted on April 18, 2018 by CDR Elizabeth Garza, MPH, CPH, and Christine Branche, PhD, FACE

Falls remain the leading cause of death in construction. In 2016, there were 370 fall fatalities out of 991 total fatalities in construction. There were more fatal injuries in construction than any other industry in the United States in 2015, accounting for 20% of the nation’s 4,836 work-related deaths that year. According to the CPWR—the Center for Construction Research and Training, from 2011-2015, 61% of fatal falls in construction occurred in small businesses with fewer than 10 employees (see figure 1). Falls account for 37% of the work-related deaths suffered by construction workers. Almost two-thirds of those fatal falls were from roofs, scaffolds, and ladders.

These falls are preventable. This National Campaign to Prevent Falls in Construction was launched on April 26, 2012. The Campaign encourages everyone in the construction industry to work safely and use the right equipment to reduce falls (see figure 2). This year marks the 5th year of the National Stand Down to Prevent Falls in Construction. We are asking employers to join our ongoing campaign and participate in the National Safety Stand-Down during the week of May 7-11. Set aside time during that week to have an open discussion with your employees about falls and how to prevent them. Over the last few years, thousands of companies have participated in the Stand-Down reaching millions of employees across all 50 states and internationally. Since the fall stand-down started, over 7.5 million people have stood down in the U.S.
Videos: 5 Years in Review

Oregon Fatality Assessment and Control Evaluation (OR-FACE)
Cobranded Infographics

FALL PROTECTION SAVES LIVES

Employers must provide effective fall protection for workers who are working at 6 feet or higher by providing either:

- Personal Fall Arrest Systems (PFAS)
- Safety Net Systems
- Guardrail Systems

Fall protection training programs must be provided to workers who might be exposed to fall hazards.

About 70% of workers in residential roofing, siding, and sheet metal construction did not have access to PFAS.

More than 1/2 of workers who suffered a fatal fall did not have access to PFAS.

Join the Campaign to Stop Construction Falls!
www.stopconstructionfalls.com

Source: Dong XS, Largay JA, Choi SD, Wang X, Cain CT, Romano N. 2017. Fall fatalities and PFAS use in the construction industry: Findings from the NIOSH FACE reports. Accident Analysis & Prevention, 102:136–143.
To learn more, click on: https://www.cdc.gov/niosh/face and check out the Construction FACE database to learn about which factors led to these fatal injuries https://cpwr.com/research/construction-face-database.

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Cobranded Infographics

FATAL FALLS: SMALL BUSINESS AND RESIDENTIAL CONSTRUCTION

Small businesses (10 or fewer employees) account for 61% of fatal falls in construction.

Fatalities caused by falls from elevation remain the leading cause of death for construction workers accounting for 370 of the 991 construction fatalities recorded in 2016 (BLS data).

Fall fatalities in residential construction more than doubled from:
- 26 deaths in 2011
- 61 deaths in 2015

PLAN PROVIDE TRAIN
Three simple steps to preventing falls.


CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Continued Focus and Outreach to Small Residential Construction Contractors

ALIANZA AMERICAS

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.
National Safety Stand-Down to Prevent Falls in Construction

Scott C. Ketcham, CSP
Acting Director, Directorate of Construction
Occupational Safety and Health Administration
National Safety Stand-Down to Prevent Falls in Construction

Join the National Safety Stand-Down To Prevent Falls in Construction

MAY 6-10, 2019
National Safety Stand-Down to Prevent Falls in Construction

- Last year’s National Fall Stand-Down was a huge success with thousands of companies – large and small – participating across the US and internationally.
  - Nearly 5,000 certificates issued reaching nearly 1 million workers
  - Over 16 million impressions from Lamar Billboards
  - Werner
    - Trained 35,000 workers at over 200 events
    - 19 million impressions on ESPN Golic and Wingo Show
    - 75 million impressions from online publications
2019 National Stand-Down
May 6-10, 2019

- Coincide with:
  - National Construction Safety Executive’s Safety Week events.

- Goals
  - Increase Safety awareness
  - Reduce and prevent injuries and fatalities
Top 10 Violations in Construction

1. Fall Protection – General Requirements (1926.501)
2. Scaffolding (1926.451)
3. Ladders (1926.1053)
4. Fall Protection – Training (1926.503)
5. Eye and Face Protection (1926.102)
6. General Safety and Health Provisions (1926.20)
7. Head Protection (1926.100)
8. Aerial Lifts (1926.453)
## Construction Industry Fatalities

<table>
<thead>
<tr>
<th>Years</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Fatalities All Construction</strong></td>
<td>828</td>
<td>899</td>
<td>937</td>
<td>991</td>
<td>971</td>
</tr>
<tr>
<td><strong>Fatality Rates All Construction</strong></td>
<td>9.7</td>
<td>9.8</td>
<td>10.1</td>
<td>10.1</td>
<td>9.5</td>
</tr>
</tbody>
</table>

Source: BLS Data
## Fall Fatalities

<table>
<thead>
<tr>
<th>Years</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Falls in all Industries</td>
<td>724</td>
<td>818</td>
<td>800</td>
<td>849</td>
<td>887</td>
</tr>
<tr>
<td>Total Falls in Construction</td>
<td>302</td>
<td>359</td>
<td>364</td>
<td>384</td>
<td>386</td>
</tr>
<tr>
<td>Construction Falls to the lower level</td>
<td>291</td>
<td>345</td>
<td>350</td>
<td><strong>370</strong></td>
<td>366</td>
</tr>
</tbody>
</table>

Source: BLS Data

OSHA

Occupational Safety and Health Administration
Percent of Fatal Falls to lower level, 2017

- A total of 713 work-related fatal falls to lower level were recorded in 2017, up 2 percent from 2016.
- Of the cases where height of fall was known (614 cases), 48 percent were falls of 15 feet or less.
- About one in five falls with a known height were from more than 30 feet.

Source: BLS Data
Fall Prevention Campaign – Our Messages

PLAN ahead to get the job done safely
PROVIDE the right equipment
TRAIN everyone to use the equipment safely

PLAN. PROVIDE. TRAIN.
Three simple steps to preventing falls.

PLANIFIQUE. PROPORCIONE. ADIESTRE.
Tres pasos sencillos para prevenir caídas.
Highlights from Previous Years

Five Years of National Safety Stand-Down to Prevent Falls in Construction

2018 Highlights

2017 Highlights

2016 Highlights

2015 Highlights

2014 Highlights
Fall Stand-Down Posters
Stand-Down Resources

- Fall Prevention - Fact Sheet
  - English
  - Spanish
  - Polish
  - Russian
Stand-Down Resources

- Fall Prevention: Safety Pays. Falls Cost. Sticker (English & Spanish)

- Fall Prevention: Training Guide - A Lesson Plan for Employers (English & Spanish)
Ladder Safety: Falling Off
Ladders Can Kill: Use Them Safely (English & Spanish)
New

And, lots of fact sheets, fatal facts, etc. available on OSHA’s web page
Media Resources

If you’re working at 6 feet or higher, you need fall protection.

3 parts of an effective fall arrest system:
1. Anchorage point
2. Harness
3. Lanyard or lifeline

Use fall protection when 6 feet up and higher.
Inspect your harness, lanyard, and anchorage point.
Always wear your gear and stay connected.

Falls can be prevented:
PLAN ahead to get the job done safely.
PROVIDE the right equipment.
TRAIN everyone to use the equipment safely.
OSHA Safety Videos - Falls in Construction

- **Leading Edge Work** Prevention Videos
- **Floor Opening** Prevention Videos
- **Fixed Scaffold** Prevention Videos
- **Stopping Falls, Saving Lives**
Fall Prevention - Additional Resources

https://www.osha.gov/stopfalls/index.html
After your Stand-Down

- Receive a “Certificate of Participation” for holding a Stand-Down.
  - Secretary of the Department of Labor saying thank you for participating.
  - Go to the Stand-Down certificate webpage after your stand-down, complete a short survey, then print your certificate.
  - Share your stand-down experience and pictures with us for possible posting on the webpage.
Certificate Participant Levels

**BRONZE**
2-Time Participant

**SILVER**
3-Time Participant

Certificate of Recognition

The Occupational Safety and Health Administration recognizes
Your Company Name
Project Title
for participating in the OSHA 2019 National Safety Stand-Down
to Prevent Falls in Construction

Scott C. Ketcham, Acting Director
Directorate of Construction

Safety Pays. Falls Cost.

OSHA® Occupational Safety and Health Administration

**GOLD**
4-Time Participant

**PLATINUM**
5+ Time Participant

Stand-Down Participant
Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com

CPWR – The Center for Construction Research & Training

Chris Trahan Cain
Executive Director
CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Stand-Down Planning Resources

- About the Stand-Down Flyer
- Jobsite posters
- Promotional Video - https://youtu.be/ke1L_R0ExdE
- Evaluation Reports
- Success Story examples
Training Resources & Handouts

- Hardhat Stickers
- Hazard Alert Cards
- Infographics
- Toolbox Talks
- Videos
- NIOSH Ladder App

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
New for 2019

- Easy Access Resource Page On stopconstructionfalls.com
- Updated 5-day Plan*
- 1-day Plan*
- Suspension Trauma Infographic*
- Fall Clearance Calculation Infographic*
- Generic Written Fall Protection Plan*

*Coming soon
Online Ordering Form

http://stopconstructionfalls.com/online-ordering-form/

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
## Online Ordering Form

<table>
<thead>
<tr>
<th></th>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardhat Stickers</td>
<td>--</td>
<td>50,000</td>
<td>50,000</td>
<td>173,000</td>
<td>260,000</td>
</tr>
<tr>
<td>Hazard Alerts</td>
<td>1,800</td>
<td>9,186</td>
<td>14,100</td>
<td>70,215</td>
<td>142,213</td>
</tr>
</tbody>
</table>

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### CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
Fatality Maps

Construction Fatalities in the USA, Jan 1 – June 30, 2018

Construction Fall Fatalities in the USA, Jan 1 – June 30, 2018

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.
11 Ways to Keep Your Fall Prevention Program Alive All Year Long

The Stand-Down may be over, but the Campaign to Prevent Falls in Construction is year round! Here are some reasons to conduct fall prevention activities throughout the year to reinforce safe practices:

- Jobsites are always changing and crews come and go – you may have many new workers present who were not around when you participated in the Stand-Down in May.
- Even if your crew did participate in the Stand-Down, it’s easy to become complacent afterward. Scheduling activities quarterly or even monthly can re-energize your crew and bring the focus back to the fact that falls need to be prevented.
- If your jobsite does experience a fall – even if nobody is injured – workers may feel upset, anxious, and worried about their safety. Taking the time to perform an incident investigation and stopping work to re-focus on fall protection policies and education can improve both safety and morale.

If your jobsite experiences a fall, at a minimum, you should:

1. Determine the cause of the fall,
2. Inspect and remove faulty personal fall arrest systems or equipment, such as ladders or scaffolds, that may have contributed to a fall from use,
3. Have an open conversation with workers about their concerns,
4. Conduct a refresher training on fall prevention, and
5. Communicate the importance of fall protection throughout the organization.

CPWR, OSHA and NIOSH have a variety of resources that you can use when deciding what activities will work for your jobsite’s ongoing fall prevention program. Be imaginative and select activities that fit your company’s culture and the kind of construction work you do. The following list of ideas may help you get started:
QUESTIONS?