

# 2024 TECHNICAL ASSISTANCE PROGRAM CORPORATE WEBINAR



**HENSEL PHELPS**  
Plan. Build. Manage.



# COMMITMENT TO SAFETY

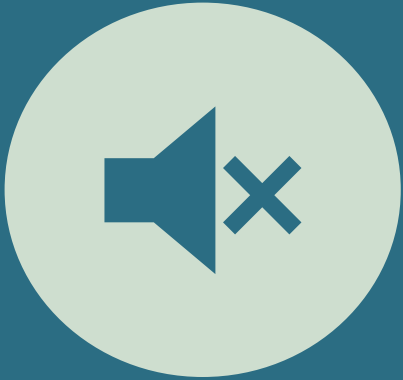
MODERATED BY



**David Fisher**

*Manager of Supplier Diversity*

# HOUSEKEEPING



## MUTE

PLEASE **MUTE** YOUR  
LINE THROUGHOUT  
THE PRESENTATION



## CAMERA

WE ENCOURAGE YOU  
TO HAVE YOUR  
CAMERA **ON**.



## QUESTIONS

HAVE A QUESTION?  
ASK IN THE **CHAT**.  
WE WILL HAVE A Q&A  
SECTION AT THE END  
OF THE  
PRESENTATION



## REACT

**REACT!** STAY ENGAGED  
WITH REACTIONS

# THE PURPOSE OF TAP

2024 TECHNICAL  
ASSISTANCE  
PROGRAM  
CORPORATE WEBINAR

- ❖ FIRST PROGRAM 2016
- ❖ BEHIND THE SCENES LOOK
- ❖ BEST PRACTICES / LESSONS LEARNED
- ❖ SMALL BUSINESS GROWTH





# COMMITMENT TO SAFETY

PRESENTED BY



**Zack Carter-Cormier**  
*Senior Safety Manager*



# SAFETY EXPECTATIONS

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## All injuries can be prevented.

Every one of us plays a role in creating a positive safety culture and safe place to work. Take action and make Hensel Phelps the safest company in our industry:

- 1 Integrate safety into everything you do.
- 2 Have a plan.
- 3 Observe your surroundings.
- 4 Stop work when we don't have the proper plan in place.
- 5 Recognize and reinforce safe practices.



**Mike Choutka**  
President and CEO

Scan the QR Code  
to watch the video



# HENSEL PHELPS' SAFETY SUPPORT

2024 TECHNICAL  
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# HENSEL PHELPS' SAFETY PROGRAM



6-Step Quality Process					
1 Purchasing Meeting	2 Pre-Mobilization Meeting	3 Preparatory Meeting	4 Initial Inspection	5 Follow Up Inspection	6 Final Inspection
Activities by Process Step	QC Activities	Safety Activities	Other Team Member Involvement	Subcontractor Involvement	
<b>Purchasing Phase</b> <ul style="list-style-type: none"><li>■ Bid Packages</li><li>■ Check references</li><li>■ Verify scope</li></ul>	<ul style="list-style-type: none"><li>■ Check references</li><li>■ Make subcontractor recommendations</li></ul>		<ul style="list-style-type: none"><li>■ Estimators</li></ul>	<ul style="list-style-type: none"><li>■ Estimators</li></ul>	
<b>1. Purchasing Meeting</b> <ul style="list-style-type: none"><li>■ Subcontractors commitment to:<ul style="list-style-type: none"><li>- Adherence to QC Process</li><li>- Submittal Dates</li></ul></li><li>■ Check references</li><li>■ Verify scope</li></ul>	<ul style="list-style-type: none"><li>■ Check Risk Assessment Database</li><li>■ Ensure testing requirements</li><li>■ Update Quality Process Log (QPL) with OQOW</li><li>■ Review rough draft subcontracts</li></ul>	<ul style="list-style-type: none"><li>■ JHAs based on 90 day schedule</li></ul>	<ul style="list-style-type: none"><li>■ Estimators</li><li>■ Project Manager</li><li>■ Project Superintendent</li><li>■ Safety Manager</li><li>■ Estimators</li><li>■ Project Manager</li></ul>	<ul style="list-style-type: none"><li>■ Estimators</li><li>■ Principal</li></ul>	
<b>Contract Issuance</b> <ul style="list-style-type: none"><li>■ Document commitment</li></ul>				<ul style="list-style-type: none"><li>■ Principal</li><li>■ Hensel Phelps software</li></ul>	
<b>2. Pre-Mobilization Meeting</b> <ul style="list-style-type: none"><li>■ Confirm Quality commitments made during Purchasing Meeting</li><li>■ Obtain submittals</li><li>■ Explain process to subcontractor Project Manager</li><li>■ Explain requirements to be satisfied prior to Preparatory Phase</li></ul>	<ul style="list-style-type: none"><li>■ Communicate QC Process</li><li>■ Outline requirements for Preparatory Meeting</li><li>■ Update QPL with JHAs</li><li>■ Shop visits</li><li>■ Submittal review to develop agenda for Preparatory Meeting.</li><li>■ Inspection Checklist</li><li>■ JHAs submitted and approved</li></ul>	<ul style="list-style-type: none"><li>■ Review MSDS</li><li>■ Review pertinent start-up</li></ul>	<ul style="list-style-type: none"><li>■ QC Manager</li><li>■ Project Engineer</li><li>■ Superintendents</li><li>■ Designer</li><li>■ Office Engineer</li><li>■ Safety Manager</li></ul>	<ul style="list-style-type: none"><li>■ Project Manager</li><li>■ Project Engineer</li><li>■ Superintendents</li></ul>	
<b>3. Preparatory Meeting</b> <ul style="list-style-type: none"><li>■ Ensure subcontractor Foreman understands contract documents, RFIs &amp; Quality Expectations</li><li>■ Establish scope &amp; schedules for initial inspection</li><li>■ Coordination with other trades</li><li>■ Testing requirements</li></ul>	<ul style="list-style-type: none"><li>■ Lead &amp; document inspection</li><li>■ Review &amp; finalize inspection checklist</li><li>■ Update QPL</li></ul>	<ul style="list-style-type: none"><li>■ Review of JHAs</li><li>■ Review 90 day schedule for Preparatory Meetings</li></ul>	<ul style="list-style-type: none"><li>■ Designer</li><li>■ Office Engineer</li><li>■ Superintendents</li><li>■ Owner QA Team</li><li>■ Safety Manager</li></ul>	<ul style="list-style-type: none"><li>■ Superintendents</li><li>■ Foreman</li><li>■ Hensel Phelps software</li></ul>	
<b>4. Initial Inspection</b> <ul style="list-style-type: none"><li>■ Check materials for conformance</li><li>■ Check installation for conformance with plans &amp; specs</li><li>■ Establish standard for craftsmanship</li><li>■ Train the crew &amp; installer</li><li>■ Train the Field Engineers on inspection procedures</li></ul>	<ul style="list-style-type: none"><li>■ Lead &amp; document inspection</li><li>■ Review &amp; finalize inspection checklist</li><li>■ Update QPL</li></ul>	<ul style="list-style-type: none"><li>■ Review of JHA and modify</li></ul>	<ul style="list-style-type: none"><li>■ Designer</li><li>■ Field Engineer</li><li>■ Office Engineer</li><li>■ Superintendents</li><li>■ Owner QA Team</li><li>■ Safety Manager</li></ul>	<ul style="list-style-type: none"><li>■ Superintendents</li><li>■ Foreman</li><li>■ Crew Leads</li><li>■ QC Engineer</li><li>■ Hensel Phelps software</li></ul>	
<b>5. Follow Up Inspection</b> <ul style="list-style-type: none"><li>■ Check materials for conformance</li><li>■ Check installation for conformance with plans &amp; specs</li><li>■ Establish standard for craftsmanship</li><li>■ Train the crew &amp; installer</li><li>■ Train the Field Engineers on inspection procedures</li></ul>	<ul style="list-style-type: none"><li>■ Lead &amp; document inspection</li><li>■ Ensure required testing is performed</li><li>■ Update QPL</li></ul>	<ul style="list-style-type: none"><li>■ Review of JHA and modify</li></ul>	<ul style="list-style-type: none"><li>■ Field Engineer</li><li>■ Safety Manager</li></ul>	<ul style="list-style-type: none"><li>■ Foreman</li><li>■ Crew Leads</li><li>■ QC Engineer</li><li>■ Hensel Phelps software</li></ul>	
<b>6. Final Inspection</b> <ul style="list-style-type: none"><li>■ In-house inspection</li><li>■ Pre-final inspection</li></ul>			<ul style="list-style-type: none"><li>■ Project Manager</li><li>■ Field Engineer</li><li>■ Superintendents</li></ul>	<ul style="list-style-type: none"><li>■ Foreman</li><li>■ Crew Leads</li><li>■ QC Engineer</li><li>■ Hensel Phelps software</li></ul>	



# START-UP PACKET

## Safety Plans

- Job Information Policy & Brochure (JIP)
- Accident Prevention Plan
  - Fall Protection and Rescue
  - Haz Com Plan
  - Hazardous Materials
  - Dig permits
  - Crane arrival forms
  - Additional Sections As Needed



# PLANNING FOR SAFETY

- Activity Hazard Analysis (AHA)
  - Identify and control risk
  - Completed by Trade Partner
  - Completed for each operation
  - Accepted by Hensel Phelps
  - Available in the field
  - Personnel are trained and sign the AHA
  - Update as necessary
- Competent Person
  - Identified for all Definable Features of Work (DFOW)
- Safety Task Assignment (STA)



# PLANNING FOR SAFETY

- Site-Specific Safety Plan
  - Injury and Illness Prevention Plan
  - Disciplinary Program
  - Hazard Communication Program
  - Heat Stress Prevention Plan
- Safety Data Sheets
  - Upload into MSDS Online
  - Chemical Questionnaire
- Training and Certifications
- Contractor-Specific Documentation (As applicable)
  - Fall Protection Program
  - Steel Erection Plan
  - Tabulated Data
  - Confined Space Program
  - Silica Exposure Control Plan
  - Lockout / Tagout Program



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- [illegible]



# ACTIVITY HAZARD ANALYSIS

- Submit for Review Prior to Prep Meeting
- Must be Accepted to Have the Prep Meeting
- Be Detailed
  - Avoid repetitive items
- Review and Amend as Necessary
  - Change in tool, material etc.
  - Incident or near miss occurs
  - Change in site logistics
- Train Employees





# UNACCEPTABLE AHA

## Activity Hazard Analysis (AHA)

Activity/Work Task: <i>Various things</i>	Overall Risk Assessment Code (RAC) (Use highest code)					
Project Location: <i>1234 West Utopia</i>	<b>Risk Assessment Code (RAC) Matrix</b>					
Contractor: <i>Barely Makin It, LLC</i>	<b>Severity</b>	<b>Probability</b>				
Date Prepared: <i>11/1/2013</i>		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title): <i>John</i>	Catastrophic	E	E	H	H	M
Reviewed by (Name/Title):	Critical	E	H	H	M	L
	Marginal	H	M	M	L	L
	Negligible	M	L	L	L	L
Notes: (Field Notes, Review Comments)	Review each "Hazard" with identified safety "Controls" and determine RAC (See above)					
	"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.					<b>RAC Chart</b>
	"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible					
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.					
<div>E = Extremely High</div> <div>H = High Risk</div> <div>M = Moderate Risk</div> <div>L = Low Risk</div>						

Job Steps	Hazards	Controls	RAC
Using power tools	Injury to body	Use appropriate PPE	L
Working at heights	Falling	Use fall protection	L
Working around backhoe	Being hit by equipment	Be careful when working around the backhoe	L
Working near an excavation	Cave in	Make sure you always have a hardhat on	L
Using ladders	Falls	Be careful when using your ladder	L

# UNACCEPTABLE AHA

Equipment to be Used	Training	Inspection Requirements
<i>Different tools throughout the work</i>	<i>Already trained</i>	<i>Already inspected by shop</i>

Activities Requiring a Competent or Qualified Person – Attach Proof of Competency

Activity	Designated Competent or Qualified Person
	<i>Safety Guy</i>

# EXAMPLE OF AN ACCEPTABLE AHA

## Activity Hazard Analysis (AHA)

Activity/Work Task: <i>Using step ladder to access overhead work</i>	Overall Risk Assessment Code (RAC) (Use highest code)													
Project Location: <i>1937 Main Street</i>	<b>Risk Assessment Code (RAC) Matrix</b>													
Contractor: <i>Doing It Right Mechanical</i>	<b>Severity</b>	<b>Probability</b>												
Date Prepared: <i>11/1/2013</i>		Frequent	Likely	Occasional	Seldom	Unlikely								
Prepared by (Name/Title): <i>Bill Smith - Superintendent</i>	Catastrophic	E	E	H	H	M								
	Critical	E	H	H	M	L								
	Marginal	H	M	M	L	L								
	Negligible	M	L	L	L	L								
Reviewed by (Name/Title): <i>John Jones - HP Superintendent</i>	Review each "Hazard" with identified safety "Controls" and determine RAC (See above)													
Notes: (Field Notes, Review Comments) <i>-Need to add comment about "no aluminum ladders" allowed on site</i> <i>-Need copy of training records for crew</i> <i>-Need Competent Person qualifications and letter from Company</i>	"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.													
	"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible													
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.													
	<table border="1"> <tr> <td colspan="2"><b>RAC Chart</b></td> </tr> <tr> <td>E = Extremely High</td> <td></td> </tr> <tr> <td>H = High Risk</td> <td></td> </tr> <tr> <td>M = Moderate Risk</td> <td></td> </tr> <tr> <td>L = Low Risk</td> <td></td> </tr> </table>					<b>RAC Chart</b>		E = Extremely High		H = High Risk		M = Moderate Risk		L = Low Risk
<b>RAC Chart</b>														
E = Extremely High														
H = High Risk														
M = Moderate Risk														
L = Low Risk														

Job Steps	Hazards	Controls	RAC
Using step ladders	Falls Ladder Failure Dropped Objects	-Make sure the correct size ladder is being used for the task -Ladder must be inspected prior to use – damaged / defective ladders shall be tagged and taken out of service -Ladder shall be set up correctly on firm level ground and spreader bars locked -Ladder shall be used in accordance with the manufacturers guidelines and warning labels on the ladder -3 points of contact shall be maintained while going up or down the ladder and user shall face the ladder while going up or down -Personnel shall not stand on the top two steps of the ladder -Personnel shall not stand backwards on ladder -If ladder is going to be used in a high traffic area (hall way / corridor) the area around the ladder will need to be flagged off or a spotter used to control the area so the ladder is not bumped causing user to fall from the ladder – same thing applies when working near doorways -Do not set or store tools and material on top of the ladder -When finished with the ladder make sure it is properly stored – out of the way and secured if necessary	M

# EXAMPLE OF AN ACCEPTABLE AHA

Equipment to be Used	Training	Inspection Requirements
Fiberglass step ladders *GC does not allow aluminum ladders on the project	Ladder Safety	Inspect daily before each use Documented inspection required quarterly

Activities Requiring a Competent or Qualified Person – Attach Proof of Competency

Activity	Designated Competent or Qualified Person
Ladder use	Dave Sullivan - Foreman

This AHA has been reviewed by Hensel Phelps for general compliance with the jobsite safety requirements. The Hensel Phelps review, however, does not relieve Subcontractor of the responsibility for compliance with all applicable safety laws, regulations, ordinances, and contractual requirements. Subcontractor is responsible for reviewing this AHA with all personnel involved with the Definable Feature of Work (DFOW) on a regular basis and must notify Hensel Phelps and adjust the AHA as necessary whenever the plan for performing the DFOW is modified or following an unplanned event.

Modified: 11.2013

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Form SH B06.01



# COMPETENT PERSON AND OPERATOR QUALIFICATIONS

*A Competent Person must be assigned for all Trade Partners and any qualified operator information must be kept on file.*

## ■ Competent Person Examples

- Fall Protection
- Confined Space
- Silica
- Scaffolds
- Trench / Excavation
- Crane Assembly / Disassembly

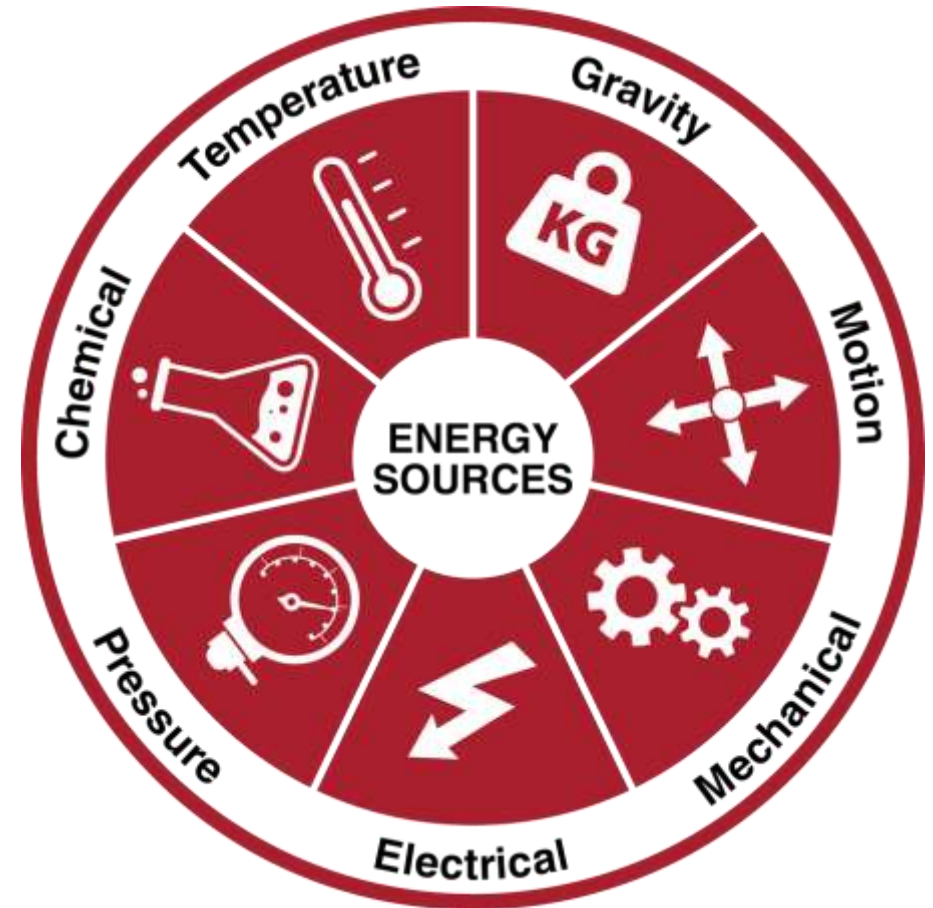
## ■ Qualifications Examples

- Boom Lift
- Scissor Lift
- Forklift
- Rigger
- Heavy Equipment
- Crane (*requires evaluation*)



# SAFETY TASK ASSIGNMENT (STA)

- Daily Documented Pre-Task Plan
- Capture Specific Tasks, Hazards, and Controls
- Opportunity for the Supervisor to Align Crew
- Set Expectations
- Review Chemicals, Access, Material Handling, etc.
- Followed by Stretch and Flex



# CHEMICAL MANAGEMENT

## HazCom and Hazardous Material Questionnaire

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*Are hazardous materials being used to perform scope of work?*  
*Will you require storage for these hazardous materials?*



# CHEMICAL QUESTIONNAIRE

**HENSEL PHELPS**  
Plan. Build. Manage.

[SUBCONTRACTOR CHEMICAL QUESTIONNAIRE]

Name of Company: \_\_\_\_\_

Name and Title of Preparer: \_\_\_\_\_

Description of Scope of Work: \_\_\_\_\_

Start Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_

Location where work is to be performed: \_\_\_\_\_

**Instructions:**

1. Complete the Subcontractor Safety Data Sheet Log (attached) for all chemicals that you will be bringing onto the project site. This log must be specific to this project only.
2. Review the Safety Data Sheet (SDS) for each chemical you are bringing onto this site and determine whether it meets the criteria of a hazardous material or hazardous waste.
  - a. If the chemical meets the criteria of a hazardous material or hazardous waste, check the box on the SDS Log indicating it is deemed a hazardous material.
  - b. Refer to the attached Waste Determination Document for additional information.
3. Submit this questionnaire, the Subcontractor SDS Log and all site specific SDS's to Hensel Phelps for review, prior to the start of work.

**Hazardous Material Questionnaire:**

Are you utilizing hazardous materials to perform the scope of work? ☐ Yes ☐ No

If so, please indicate this on the Subcontractor SDS Log by checking the box for "hazardous material". List only what you will be using on this project.

Will you require storage of hazardous materials on-site between shifts? ☐ Yes ☐ No

If so, where will this material be stored? \_\_\_\_\_

Will you be generating hazardous waste? ☐ Yes ☐ No

If YES, attach Site-Specific Hazardous Waste Management Procedures.

**Note:** It is the full responsibility of all Hensel Phelps' contractors to manage their own chemicals, hazardous materials and promptly dispose of any and all hazardous waste during the performance of work.

Other Pertinent Information: \_\_\_\_\_

Attachments: Form D3k.4 Deciding Whether Hazardous Waste Regulations Apply to You (an excerpt the EPA's document "Managing your Hazardous Waste, a Guide for Small Business")  
Form D3k.5, Subcontractor SDS Log










Use BEFORE Preparatory Meeting

**OSHA<sup>®</sup> QUICK CARD<sup>™</sup>**

**Hazard Communication Standard Pictogram**

As of June 1, 2015, the Hazard Communication Standard (HCS) will require pictograms on labels to alert users of the chemical hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border and represents a distinct hazard(s). The pictogram on the label is determined by the chemical hazard classification.

**HCS Pictograms and Hazards**

<b>Health Hazard</b>  <ul style="list-style-type: none"><li>• Carcinogen</li><li>• Mutagenicity</li><li>• Reproductive Toxicity</li><li>• Respiratory Sensitizer</li><li>• Target Organ Toxicity</li><li>• Aspiration Toxicity</li></ul>	<b>Flame</b>  <ul style="list-style-type: none"><li>• Flammables</li><li>• Pyrophorics</li><li>• Self-Heating</li><li>• Emits Flammable Gas</li><li>• Self-Reactives</li><li>• Organic Peroxides</li></ul>	<b>Exclamation Mark</b>  <ul style="list-style-type: none"><li>• Irritant (skin and eye)</li><li>• Skin Sensitizer</li><li>• Acute Toxicity (harmful)</li><li>• Narcotic Effects</li><li>• Respiratory Tract Irritant</li><li>• Hazardous to Ozone Layer (Non-Mandatory)</li></ul>
<b>Gas Cylinder</b>  <ul style="list-style-type: none"><li>• Gases Under Pressure</li></ul>	<b>Corrosion</b>  <ul style="list-style-type: none"><li>• Skin Corrosion/ Burns</li><li>• Eye Damage</li><li>• Corrosive to Metals</li></ul>	<b>Exploding Bomb</b>  <ul style="list-style-type: none"><li>• Explosives</li><li>• Self-Reactives</li><li>• Organic Peroxides</li></ul>
<b>Flame Over Circle</b>  <ul style="list-style-type: none"><li>• Oxidizers</li></ul>	<b>Environment (Non-Mandatory)</b>  <ul style="list-style-type: none"><li>• Aquatic Toxicity</li></ul>	<b>Skull and Crossbones</b>  <ul style="list-style-type: none"><li>• Acute Toxicity (fatal or toxic)</li></ul>

For more information:  
**OSHA<sup>®</sup> Occupational Safety and Health Administration**  
U.S. Department of Labor  
[www.osha.gov](http://www.osha.gov) (800) 321-OSHA (6742)

OSHA 3491-G2 2012

# WHY A SILICA PLAN?



- 🛑 Every year more than 200 workers in the United States die from Silicosis
- 🛑 Silica comprises over 90% of the earth's crust
  - 🛑 e.g.; granite, sandstone, sand

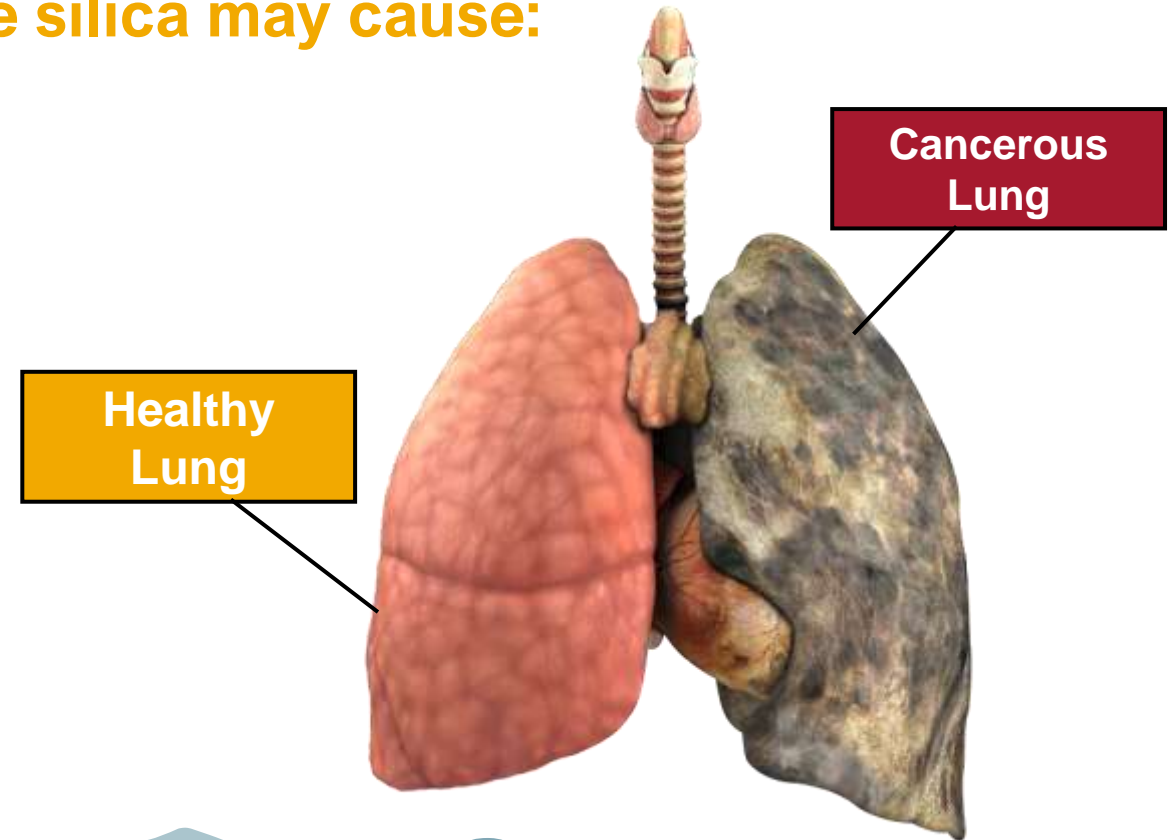




# EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA

**Over-exposure to respirable crystalline silica may cause:**

- Lung cancer
- Chronic obstructive pulmonary disease
- Tuberculosis
- Kidney disease
- Immune system diseases
- Silicosis





# SILICA STANDARDS

## From the OSHA fact sheet for silica:

**What is crystalline silica?** Crystalline silica is a basic component of soil, sand, granite, and many other minerals. Quartz is the most common form of crystalline silica. Cristobalite and tridymite are two other forms of crystalline silica. All three forms may become respirable size particles when workers chip, cut, drill, or grind objects that contain crystalline silica.

OSHA Respirable Crystalline Silica Standard for Construction				
Equipment / Task	Table 1 Engineering and Work Practice Control Methods	Respirator Requirements and Minimum Assigned Protection Factor (APF)		
		4 Hrs. or Less	More than 4 Hrs.	
Clean-up	<ul style="list-style-type: none"> <li>Must use SWEEPING COMPOUND or HEPA VACUUM must be used to minimize dust emissions.</li> <li>Not Allowed: Dry Sweeping, Dry Brushing, Blowing Compressed Air</li> </ul>	None Required	None Required	
Stationary masonry saws	<ul style="list-style-type: none"> <li>Use saw equipped with integrated WATER delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	None Required	None Required	
Handheld power saws (any blade diameter)	<ul style="list-style-type: none"> <li>Use saw equipped with integrated WATER delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	When used OUTDOORS None Required	When used OUTDOORS (APF 10)	
Handheld power saws for cutting fiber-cement board (with blade diameter of 8 inches or less)	<ul style="list-style-type: none"> <li>For tasks performed outdoors only:</li> <li>Use saw equipped with commercially available DUST COLLECTION SYSTEM.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the airflow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency.</li> </ul>	None Required	None Required	
Walk-behind saws	<ul style="list-style-type: none"> <li>Use saw equipped with integrated WATER delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	When used OUTDOORS None Required	When used OUTDOORS (APF 10)	
Rig-mounted core saws or drills	<ul style="list-style-type: none"> <li>Use tool equipped with integrated WATER delivery system that supplies water to cutting surface.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	None Required	None Required	
Handheld and stand-mounted drills (including impact and rotary hammer drills)	<ul style="list-style-type: none"> <li>Use drill equipped with commercially available shroud or cowl with DUST COLLECTION SYSTEM.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the airflow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</li> <li>Use a HEPA-filtered vacuum when cleaning holes.</li> </ul>	None Required	None Required	
Jackhammers and handheld powered chipping tools	<ul style="list-style-type: none"> <li>Use tool with WATER delivery system that supplies a continuous stream or spray of water at the point of impact.</li> <li>OR</li> <li>Use tool equipped with commercially available shroud and DUST COLLECTION SYSTEM.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the airflow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</li> </ul>	When used OUTDOORS None Required	When used OUTDOORS (APF 10)	
Handheld grinders for mortar removal (i.e., tuckpointing)	<ul style="list-style-type: none"> <li>Use grinder equipped with commercially available shroud and DUST COLLECTION SYSTEM.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic preseparator or filter-cleaning mechanism.</li> </ul>	None Required	None Required	
Handheld grinders for use other than mortar removal	<ul style="list-style-type: none"> <li>For tasks performed OUTDOORS only:</li> <li>Use grinder equipped with integrated WATER delivery system that continuously feeds water to the grinding surface.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>OR</li> <li>Use grinder equipped with commercially available shroud and DUST COLLECTION SYSTEM.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic preseparator or filter-cleaning mechanism.</li> </ul>	When used OUTDOORS None Required	When used OUTDOORS (APF 10)	

29 CFR 1926.1103

# EXPOSURE CONTROL OPTIONS

OSHA'S NEW SILICA STANDARD SPECIFIES TWO OPTIONS  
FOR CONTROLLING RESPIRABLE SILICA:

1

**Specific  
Exposure  
Control**

*PREFERRED*

2

**Alternative  
Exposure  
Control**

*LEAST DESIRABLE*

# HEAT ILLNESS PREVENTION

2024 TECHNICAL  
ASSISTANCE  
PROGRAM  
CORPORATE WEBINAR

# #1

Weather-related  
Cause of Death in  
the U.S.

# 1,500

Estimated Annual  
Death toll in the U.S.

**MOST EFFECTIVE**



ELIMINATION



SUBSTITUTION



ENGINEERING  
CONTROLS



ADMIN  
CONTROLS



PPE

**LEAST EFFECTIVE**

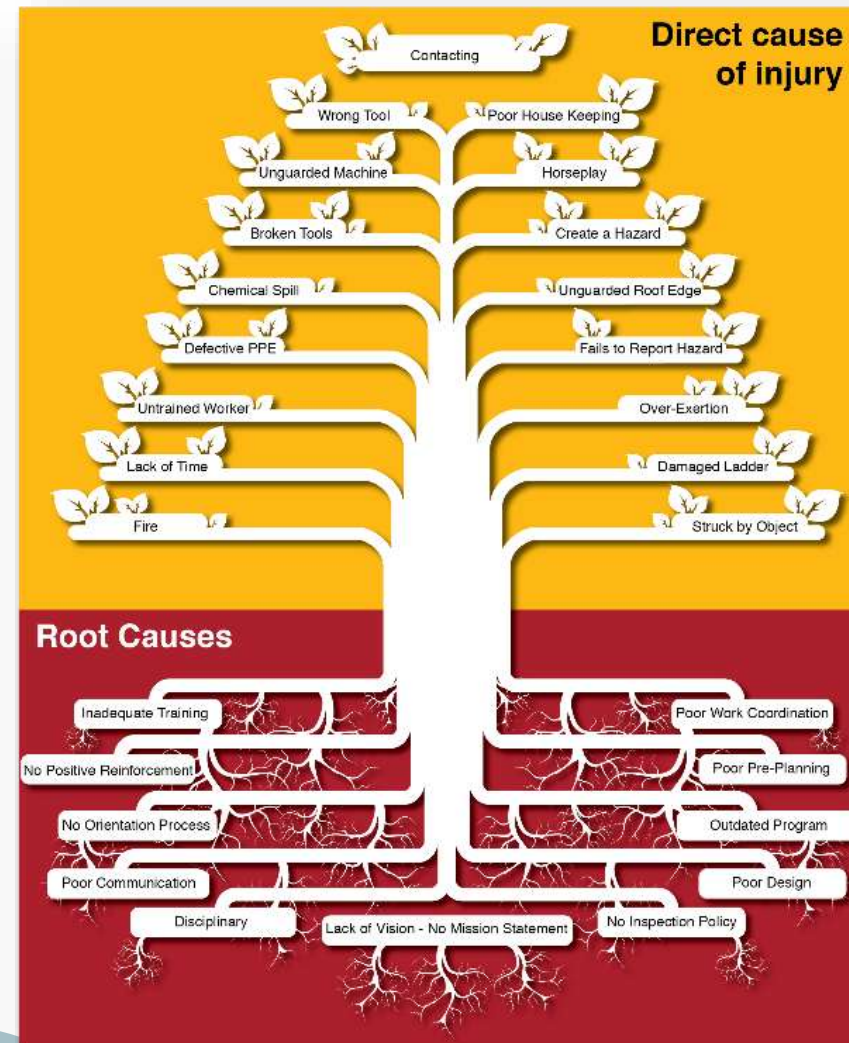


OSHA-NIOSH  
Heat Safety Tool



# ACCIDENT INVESTIGATION

- Report accidents to Hensel Phelps
- Return to work for injured employees
- Impact on Business
- Near miss investigation



# VIOLATIONS

*Safety violations that may result in disciplinary action or removal from site:*

- Repeat offenses
- Poor safety attitude
- Fall protection
- Trench / excavation
- Lock out / tag out
- Removal from jobsite
- Removal of safety devices
- Horseplay
- Drug / alcohol use
- Others, as this list is not all inclusive



# S.A.F.E.

## Safety Accountability for Everyone

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- Safety is a human issue
- Communication with respect
- Education and Training
- Positive Reinforcement
- Culture of Accountability
- Trade Partner Management
- Outstanding Performance



# CULTURE OF CARE

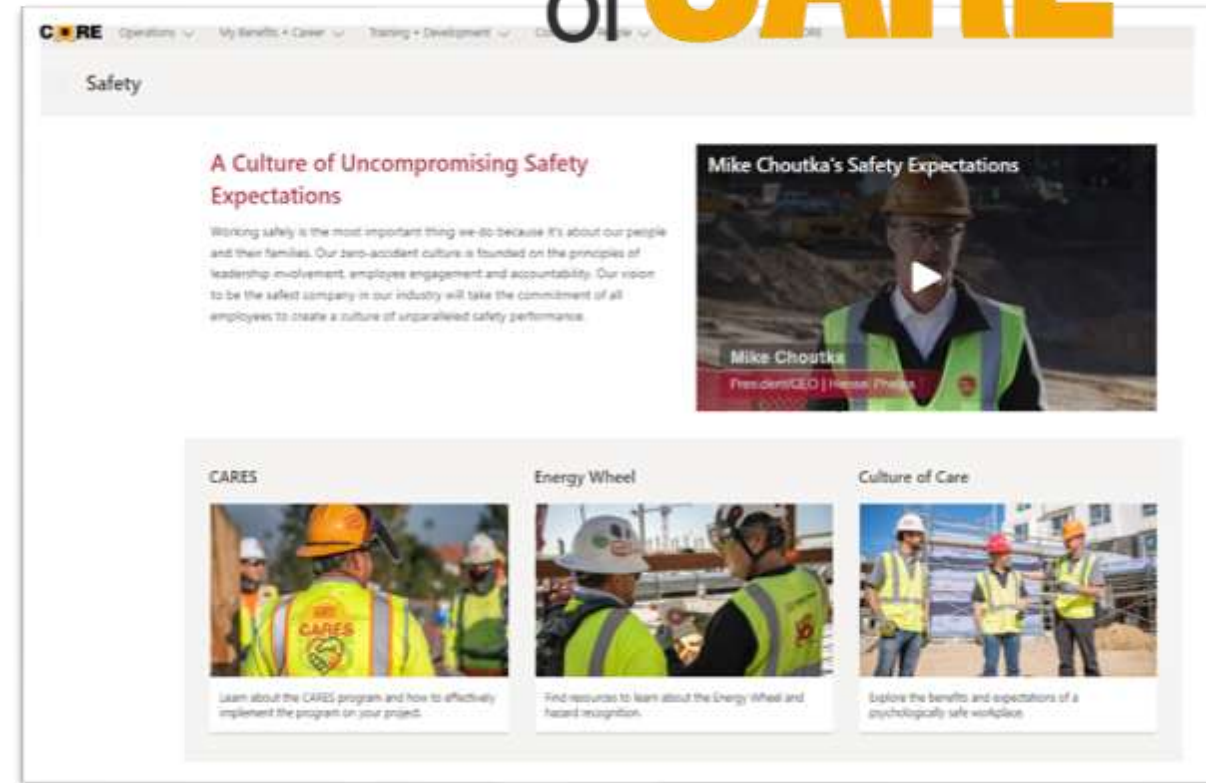
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- 50% of construction workers will experience a mental health issue in their lifetime

**Suicide** in the construction industry is **4X** the national average.

- Culture of Care is the umbrella under which Hensel Phelps will provide resources and tools to support our people - our greatest asset.

## CULTURE of CARE



# CARES

## Craft Awareness, Recognition and Engagement in Safety

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- Craft based safety committee
- Encourages open communication
- Improves culture
- Improve problem solving
- Meeting frequency





# YOUR RESPONSIBILITIES

- Work safely
- Stop the operation if it's unsafe
- Do not proceed with work unless the AHA has been reviewed
- Notify your supervisor if conditions change
- Report unsafe conditions
- Do not use unsafe tools or equipment
- Communicate your concerns
- Keep your work area clean







# Q&A



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**THANK YOU**