



THE CENTER FOR CONSTRUCTION
RESEARCH AND TRAINING

NABTU-CPWR Summer Heat Webinar

JULY 29, 2025

Moderator: Chris Trahan Cain, CIH, Executive Director, CPWR

Panelists:

Shannon Jones, Tri-Fund Coordinator, Laborers' Health and Safety Fund of North America (LHSFNA)

Ken Seal, Safety and Health Director, International Union of Painters and Allied Trades (IUPAT)

Shane Eckerman, Executive Director of Safety, CSI Electrical Contractors, Inc.

Aaron Knight, OHST, EMT-B, President, NMC Companies


Housekeeping

- Today's webinar will be recorded and automatically shared via follow-up email.
- The recording and slides will also be posted on cpwr.com/webinars.
- Attendees are automatically muted! Please submit panelist questions via the Q&A box.
- Spanish audio is available via simultaneous interpretation

Simultaneous Interpretation

Interpretación simultánea

WINDOWS - MAC (Navegador web/Browser)


1. En los controles del seminario web, haga clic en **Interpretación** 
2. Haga clic en el idioma que desee escuchar.
3. (Opcional) Para escuchar solo el idioma interpretado, haga clic en **Silenciar audio original**.

Nota: Hay que unirse al audio del seminario web a través de audio o VoIP de la computadora. No podrá escuchar la interpretación de idiomas si utiliza las funciones de audio de teléfono [llamada directa](#) o [recibir llamada](#).

ANDROID - iOS (Aplicación móvil/Mobile App)

1. En los controles del seminario web, toque los puntos suspensivos **...**
2. Toque **Interpretación de idiomas**.
3. Toque el idioma que desee escuchar.
4. (Opcional) Toque el botón de alternancia **Silenciar audio original**.
5. Haga clic en **Finalizado**.

Nota: No podrá escuchar la interpretación de idiomas si utiliza las funciones de audio de teléfono [llamada directa](#) o [recibir llamada](#).

1. In your webinar controls, click **Interpretation** 
2. Click the language that you would like to hear.
3. (Optional) To hear the interpreted language only, click **Mute Original Audio**.

Note: You must join the webinar audio through your computer audio/VoIP. You cannot listen to language interpretation if you use the [dial-in](#) or [call me](#) phone audio features.

1. In your webinar controls, tap the ellipses **...**
2. Tap **Language Interpretation**.
3. Tap the language you want to hear.
4. (Optional) Tap the toggle to **Mute Original Audio**.
5. Click **Done**.

Note: You cannot listen to language interpretation if you use the [dial-in](#) or [call me](#) phone audio features.

Be a part of the solution by participating in CPWR's heat safety research initiative



To learn more, contact:
Project Director, Gavin West
gwest@cpwr.com
301-495-8522



cpwr.com/heat

Heat Illness Prevention

How do we protect our employees in the field?



ABOUT CSI

Founded in 1990, CSI has emerged as a leader in highly technical and innovative electrical design and construction. We are a full-service firm with the resources and expertise to handle any commercial, industrial, or one-of-a-kind challenge. We are a trusted contractor to diverse industries, such as aerospace, biotech/pharmaceutical, education, healthcare, entertainment, hospitality, manufacturing, and retail, to name a few. Our services also include energy solutions, and we have earned a reputation as a premier provider of energy development, installation, and maintenance. In July 2019, CSI proudly joined the MYR Group family expanding our commercial and industrial reach. We're proud to celebrate 33 years of commitment to doing all things with excellence for our customers, ourselves, and our craft. **We Build Better.**



License Number: CA 1055811

Office Locations: Antelope Valley, San Diego, San Jose, Santa Clarita Valley, Santa Fe Springs

Average Number of CSI Employees: 1,141

EMR: 0.68



Introduction

Shane Eckerman – Executive Director of Safety CSI

Worked with CSI Electrical Contractors since 2014

Thanks to:

Michael Costigan - IBEW Local 11-Business Rep/Safety Officer

Tarn Goelling - International Rep Safety & Health IBEW

Jessica Bunting – Director, Research to Practice (r2p) CPWR

Shane.Eckerman@csielectric.com

It all starts with a good plan!

We are located in California and therefore follow Cal/OSHA guidelines for a site-specific Heat Illness Prevention Plan.



HEAT ILLNESS PREVENTION PLAN

For Indoor and Outdoor Work

Project Name	<input type="text"/>
Project Number	<input type="text"/>
Site Supervisor	<input type="text"/>
Date	<input type="text"/>



Educate your Supervisors

Field supervision is the first line of defense! They must be trained and trained often!

They must know your plan and feel confident to implement it.

Ensure they have the tools to effectively implement your plan.

Educate Your Crews

Your workers must also know how to take care of themselves.

How to prepare for work each day.

What resources do they have at work?

How to get help or report concerns.

What are the signs and symptoms of heat illness?

Must be looking out for each other.

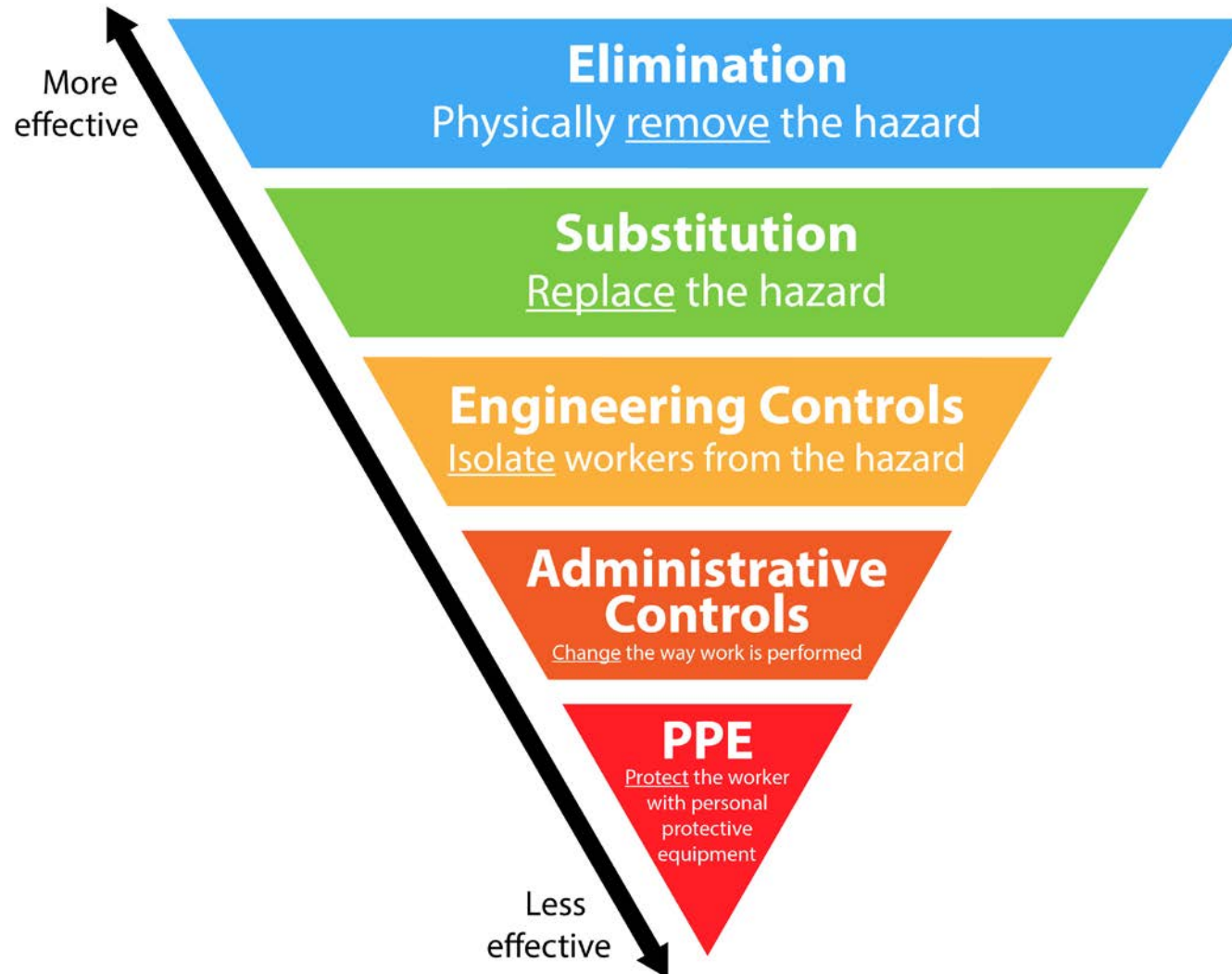
Evaluate the project sites:

- What time of the year will the project be active?
- What is typical weather for those times of the year?
- Identify challenges for the type of work and site conditions.

Addressing The Challenges you Have Identified

- Now what, how do I tackle these to protect my workers?

Hierarchy of Controls



Applying the Hierarchy of Controls

1. Can we eliminate the exposure to heat entirely?
2. Can we substitute with a safer alternative?
3. Can we engineer some controls?
4. Can we put administrative controls in place?
5. Can we find PPE (Personal Protective Equipment) gear to protect our workers?

Elimination

- When feasible reschedule strenuous work for cooler times of the day.
- Can the start time be earlier in the morning, or a shift that starts in the evening.
- If a heat wave is in the forecast can the work be rescheduled for next week when it cools off?



Substitution

- Is there mechanical means to reduce the amount of strenuous manual labor?
- For example, using carts, forklifts, or other equipment to help move materials around projects.
- Can some of the strenuous task be performed indoor where it is a cooler environment?



Engineering Controls

- Shade structures, tents, or canopies.
- Fans, misters, portable evaporative cools, or trailers/containers with air conditioning.
- Improved ventilation.







Administrative Controls

- Develop your HIIP plan and implement it.
- Are you acclimating your workers?
- Are you checking on your workers throughout the day?
- Performing most strenuous work in cooler parts of the day.
- Mandating extra breaks for rest in the shade and hydrating.
- Monitoring weather forecasts and temps throughout the day.
- Training supervisor and workers to recognize signs and symptoms before they progress to dangerous levels.



HEAT ILLNESS PREVENTION PLAN

For Indoor and Outdoor Work

Project Name	
Project Number	
Site Supervisor	
Date	

HOMEFORECASTPAST WEATHERSAFETYINFORMATIONEDUCATIONNEWSSEARCHABOUT

Local forecast by "City, ST" or ZIP code

Enter location ...

Go

[Location Help](#)

Widespread Damaging Winds Likely in the Northern Plains; Heat Continues in the Central and Southeast U.S.

⚠

Severe thunderstorms, heavy rainfall, and flooding are possible from the northern Rockies into the Upper Midwest. A derecho is likely across portions of the northern Plains, with several gusts expected to exceed 75 mph. Extreme heat is expected to intensify across much of the Southeast and Tennessee Valley, continuing through much of this week. [Read More >](#)

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Severe Thunderstorm Warning

Flash Flood Warning

Severe Weather Statement

Special Marine Warning

Dust Storm Warning

Flood Warning

Extreme Heat Warning

Severe Thunderstorm Watch

Red Flag Warning

Heat Advisory

Flood Advisory

Small Craft Advisory

Dust Advisory

Flood Watch

Extreme Heat Watch

Fire Weather Watch

Special Weather Statement

Marine Weather Statement

Air Quality Alert

weather.gov/safety

Severe Weather Safety Center











Personal Protective Equipment-PPE

- Moisture wicking and breathable clothing in light colors.
- Cooling towels, neck gaiters, wide brims
- Sunscreen
- Ice packs and cooling vests for advanced symptoms









Thank you for your time!

- Questions or Comments
- Shane.Eckerman@csielectric.com




ELECTRICAL CONTRACTORS, INC.



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THANK YOU!

Questions?

<https://cpwr.com/heat>

<https://nabtu.org/news-center/nabtukeepscool/>