

NIGHT WORK STANDARD 2020

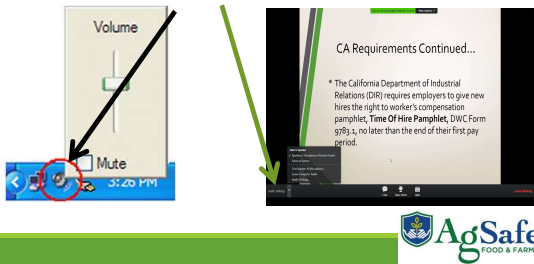
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1

If you can't hear me...

Look at the Volume
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2

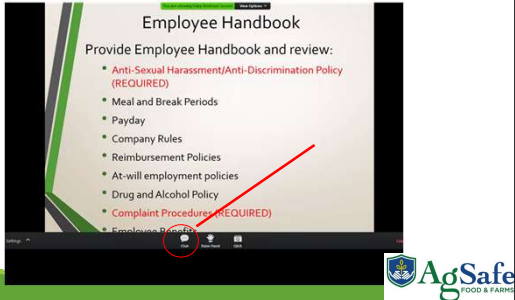
If you can't hear me...

Using the Phone



3

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4

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5

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6

Topics to be Covered:

- ❖ New standard review and lighting requirements
- ❖ Method for measuring light
- ❖ Employee training requirements
- ❖ High Visibility Clothing
- ❖ Other compliance considerations



7

Night Work Standard

Changes were made to amend: CCR, Title 8, Division 1, Chapter 4, Section 3441 – Operation of Agricultural Equipment

(g) All tractors, self-propelled farm equipment, and trucks used between sunset and sunrise shall be equipped with at least one headlight which shall be used to illuminate the area in front of the equipment or truck at least 50 feet. There shall be at least one rear light which shall illuminate equipment at the rear. Additional lighting shall be provided where the operation requires field adjustment or the operator's attention.



8

New Standard Added – CCR 8, 3449

3449. Outdoor Agricultural Operations During Hours of Darkness

Defined hours of darkness as between sunset and sunrise

At the cornerstone of the new regulation is the illumination levels required.



9

Foot-candles	Lux	Areas or Tasks
0.09-0.19	1-2	Poultry harvesting or catching operations
3	32.29	Meeting area and meal/rest area
5	53.82	Outdoor agricultural operations except where otherwise specified in this table. Pathways leading to and around restrooms and drinking water. Inside restroom facilities. Storage areas accessed by employees.
10	107.64	Intermittently exposed or exposed point of operation equipment, covered under Group 8: Points of Operation and Other Hazardous Parts of Machinery. Operationally visible moving parts of machinery covered under Group 6: Power Transmission, Prime Movers, and Machine Parts of the General Industry Safety Orders. Task lighting for agricultural operations that involve the use of tools that can potentially cause cuts, lacerations, or punctures.
20	215.30	Task lighting for maintenance work on equipment

10

Foot Candles and Lumens

* Foot candles refers to the amount of light produced from a source at a distance of one foot. In simpler terms, it is the distance unit of measurement from the source of light.

* Lumens measures brightness and from a practical perspective, is the unit of measurement found on lightbulbs.

The diagram illustrates the concept of foot-candles. A red candle labeled '1 candle source' is positioned 1 foot away from a rectangular surface. The surface is labeled '1 footcandle (fc)'. The surface has a width of 1 foot and a height of 2 feet. Dashed lines represent the light rays from the candle source hitting the surface.

11

Method for Measuring Light using a Light Meter

- The light meter needs to be held 30" off the surface where the worker is standing and in the direction of the light source.
- The meter should be in the general direction of the light source as opposed to placed directly into the bulb/light, which would provide an obvious over measurement.
- Place the meter next to an employee's leg by standing next to that individual, as opposed to taking the reading by bending down next to yourself. The latter, could cast a shadow or block the source and create a reading that is too low.
- *It is recommended you use a calibrated light meter vs. an app on a mobile device.*

12

Additional considerations for lighting

1. Lighting must be set up in a manner that minimizes glare. Test lighting options prior to implementation.
2. Employers must provide hands-free personal lighting, along with area lighting to ensure the task lighting requirements.

Expectation is that all work to be conducted at night is well-lit, whether through area lighting, personal lighting or a combination of both.



13

Examples of Readings – Restroom



14

Examples of Readings – Handwashing Station



15

Employer Training Requirements

Employers are required to train workers at the start of each shift reviewing:

- Location of restrooms and how to safely access them in the dark
- Location of drinking water and how to safely access it in the dark
- Location of designated break areas and how to safely access it in the dark
- Location of bodies of water and other potential hazards, including high traffic areas

Document and keep records of your training and any materials used to train.



16

High Visibility Clothing

- Employers must also provide at no cost and require employees to wear Class 2 high visibility clothing.
- The type of clothing is at the discretion of the employer and can potentially include a vest or jacket.



17

Some Items for Compliance

- ❖ Update your IIPP and make sure you are addressing any issues specific to working at night. Include your additional training elements for employees.
- ❖ Update emergency response procedures that could unfold outside normal work hours.
- ❖ Provide a walk-through with employees of worksites during daylight hours and identify any hazards, bodies of water, special parking instructions, high traffic areas, locations of restrooms, break areas, etc. specific to the worksite.



18

Additional Resources

Working Safely at Night Videos and Resources (Eng/Spn)

<https://www.agsafe.org/onboarding-training-videos-and-resources/>

Cal/OSHA Approved Regulation Text:

<https://www.dir.ca.gov/OSHSB/documents/Outdoor-Agricultural-Operations-During-Hours-of-Darkness-txtbrdconsider.pdf>

Cal/OSHA Injury and Illness Prevention Program e-tool:

<https://www.dir.ca.gov/dosh/etools/09-031/index.htm>



19

Thank you for your
participation!



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20
