



Workplace Safety Consultation

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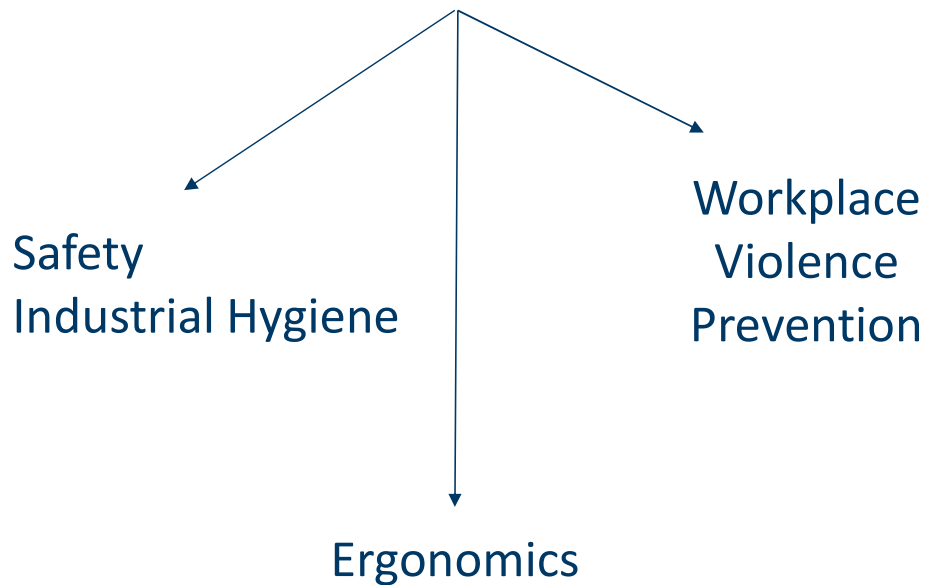
651-284-5060
1-800-657-3776

3/27/2019

MNOSHA Workplace Safety Consultation

By employer request, provides free safety and health consultation services, with priority given towards small, high-hazard industries

On-site Consultations



- Confidential -

Funding for the program:

- 90% Federal OSHA
- 10% State matching \$'s

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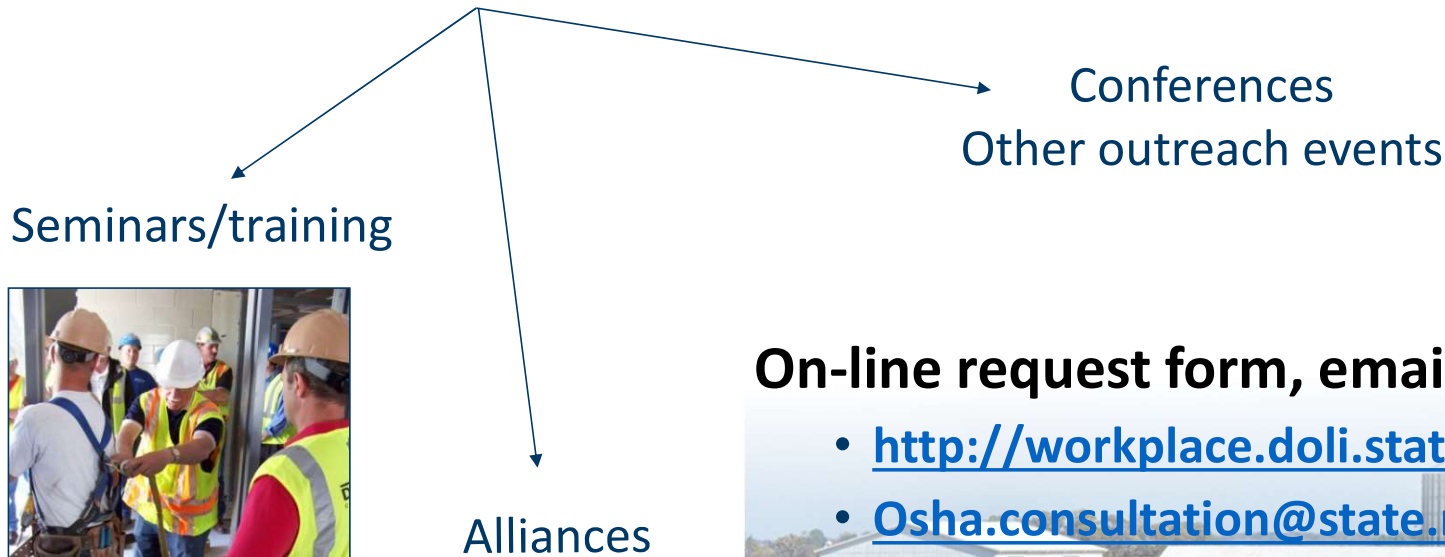
Safety Recognition



MNOSHA Workplace Safety Consultation

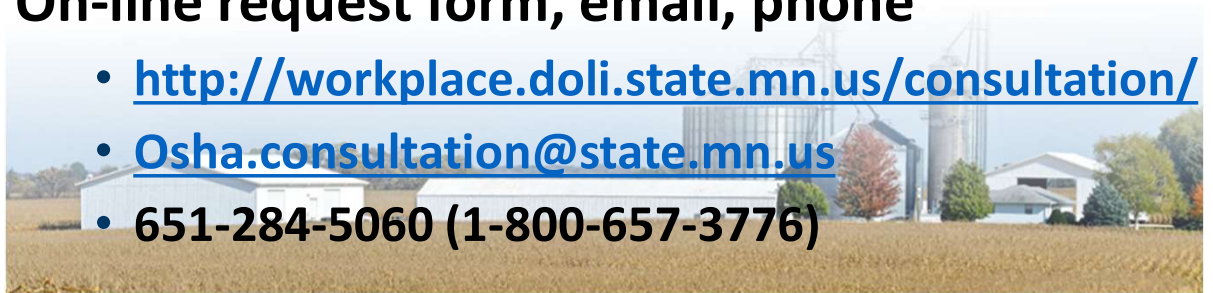
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Outreach, education/training



On-line request form, email, phone

- <http://workplace.doli.state.mn.us/consultation/>
- Osha.consultation@state.mn.us
- 651-284-5060 (1-800-657-3776)



Safety Grants

Matching dollar-for-dollar reimbursement, up to **\$10,000**, for safety and health equipment and/or training that will prevent workplace injuries/illnesses



For MN employers

- On-line application
 - <https://secure.doli.state.mn.us/grants/>
- Written (on-site) hazard survey
- Goal: To promote investment in worker injury/illness prevention

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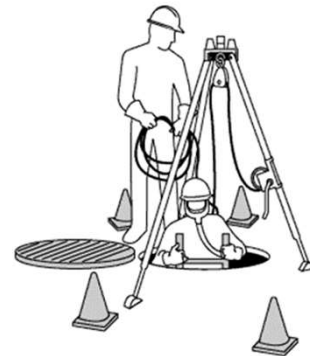
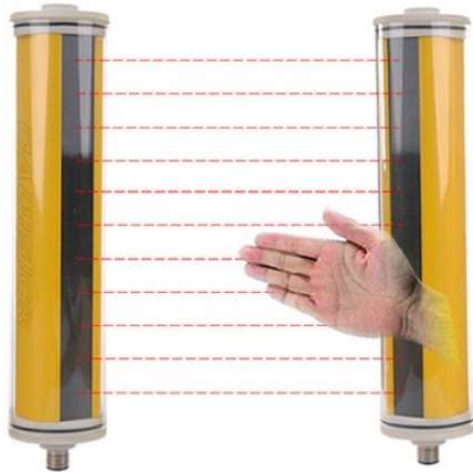
- Added priority:

- Employers within the MNOSHA Strategic plan
- Priority industries

Project examples...



Training



MNOSHA

To make sure every worker in the State of MN has a safe and healthful workplace.

Strategic emphasis includes grain facilities

- **NAICS code 424510 – merchant wholesale distribution of grains, such as wheat, corn, barley, and unpolished rice; dry beans, soybeans, and other inedible beans. Included are establishments primarily engaged in operating country or terminal grain elevators primarily for the purpose of wholesaling.**

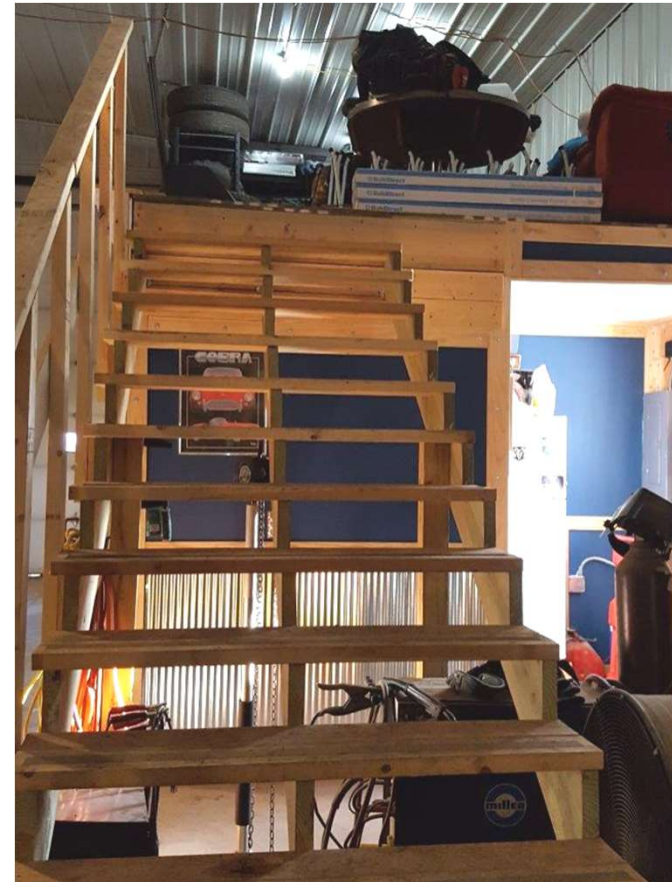
Workplace Safety Consultation:

- Grain handling and farming establishments have an added priority towards receiving a safety grant, for equipment and/or training that will prevent worker injuries/illnesses
 - including ROPS (*to support MN's ROPS program*)

Hazards Identified

NAICS 424510, 493130, 311xxx

- **Walking/working surfaces**
 - Not maintained clean and orderly
 - Open-sided floors / stairs – no standard guard railing
 - Floor opening not covered
 - Stairs w/o uniform riser height / tread width
 - No gate or off-set at fixed ladder access
 - No floor load rating



Hazards Identified

NAICS 424510, 493130, 311xxx



- **Machine guarding**

- Bin augers
- Power transmission apparatus (*i.e. belt/pulley, rotating shaft, chain/sprocket...*)
- Fan blades
- H-frame hydraulic press

- **Receiving pit**

- Grate openings $>2 \frac{1}{2}$ "



Hazards Identified

- **Electrical**

- Not suitable for the location
- Improper use of flexible cords
- Blocked electrical panel
- Unused openings (knockouts, circuit breakers...)
- No strain relief – cord/plug
- Ungrounded equipment / fixtures
- Exposed/damaged live electrical
- Electrical safe work practices

- Electrical continuity - metal raceways/conduit
- Circuit breakers not labeled
- No GFCI



Hazards Identified

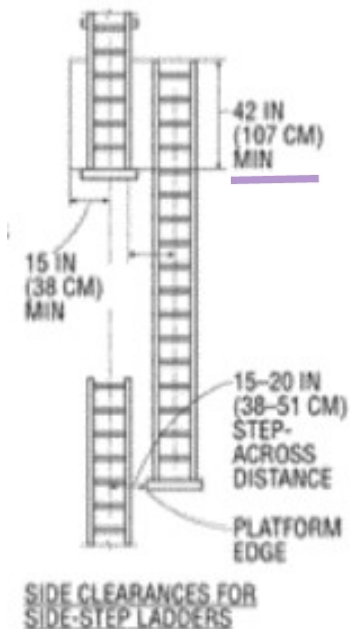


- **Grain / combustible dust**
 - Housekeeping (spilled grain, dust accumulations...)
 - Routine equipment inspections
 - *Training*
 - *Contractor management*

Hazards Identified

- **Ladders**

- No slip resistant feet at the base
- Inappropriate ladder use
- Damaged or otherwise not maintained
- Ladder side rails not extending 42" above landing
- No climbing safety device or cage on 40' fixed ladder
- ~~Landings not provided every 20'~~



Hazards Identified

- Emergency equipment
 - Portable fire extinguishers
- LOTO
 - Key left in lock
 - Lack of LOTO procedures
- Hoist hook
 - No safety latch



Hazards Identified

- Flammable liquids
 - Fuel dispensing system not protected
 - Improper dispensing
- Confined space / bin entry
 - Permit spaces not labeled
 - Atmosphere not tested...
 - No system for non-entry rescue
 - Entry permit not utilized



Hazards Identified



- Compressed air
 - Not <30 psi when dead-ended
 - Hose connections not designed for the pressure and service...
- LPG storage
 - Away from heat/flame, physical damage or tampering...
- Exit routes
 - Doors locked
 - Exit signs not readily visible
 - not labeled



Hazards Identified

- PPE

- Improper respirator storage
- Voluntary use – Appendix D
- Certified PPE assessment



- HazCom

- Unlabeled containers
- SDS



Training:

- HazCom
- General Safety
- Bin entry, LOTO,
- Hot work permit
- Housekeeping

Hazards Identified



- Powered industrial trucks
 - Operator performance not re-evaluated
 - Wheels not chocked before entering semi-trailer
- Abrasive wheel grinders
 - Work rest / tongue guard adjustment
 - Foreign material embedded...



Hazards Identified

- **MN specific rules:**
 - CO monitoring
 - Work area monitoring (*when internal combustion powered vehicles operate indoors*)
 - Exhaust gas testing, during final engine tuning, in a regular maintenance program
 - Automatic overhead doors (*w/ sufficient weight or closing force to cause crushing injury*)
 - Reversing or pressure relief mechanism
 - Constant pressure closing switch
 - 3-button control station with warning placard

Plan your work...

Don't only focus on the final outcome, but also think about how you will get to that final outcome



Thank You!

Dave Ferkul

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