

SAFETY ISSUES IN THE CONSTRUCTION WORLD

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HAZARDS

Fatal Four

- Falls
- Caught-In or –
Between
- Struck-By
- Electrocution

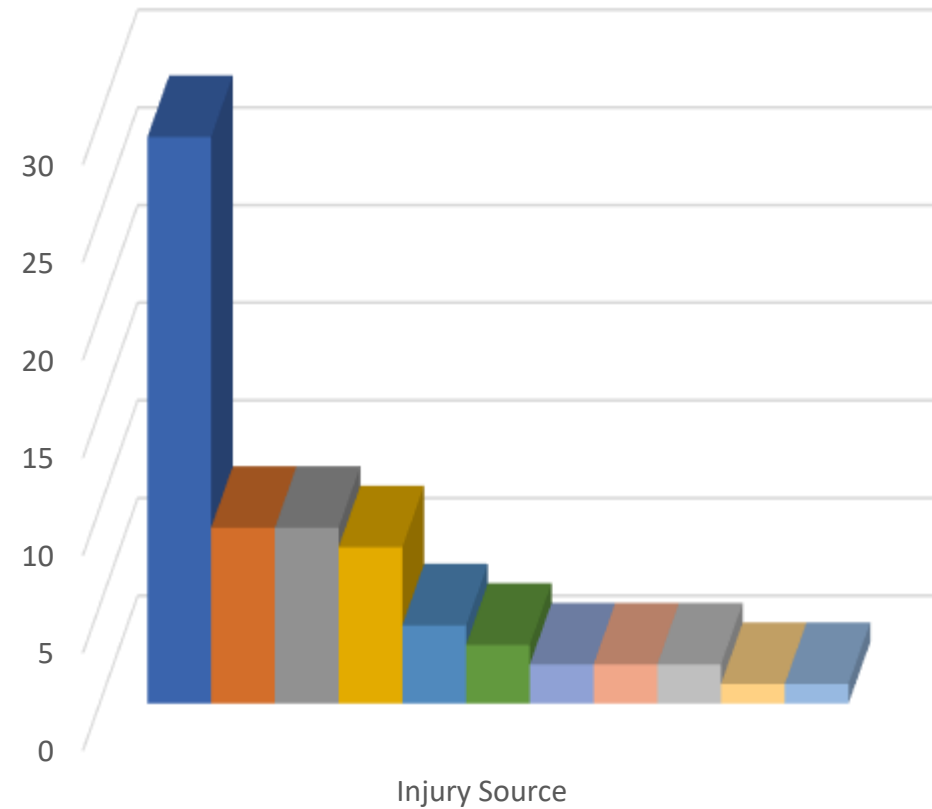
Three Threats

- Falls
- Hand Injuries
- MVA's

FALLS

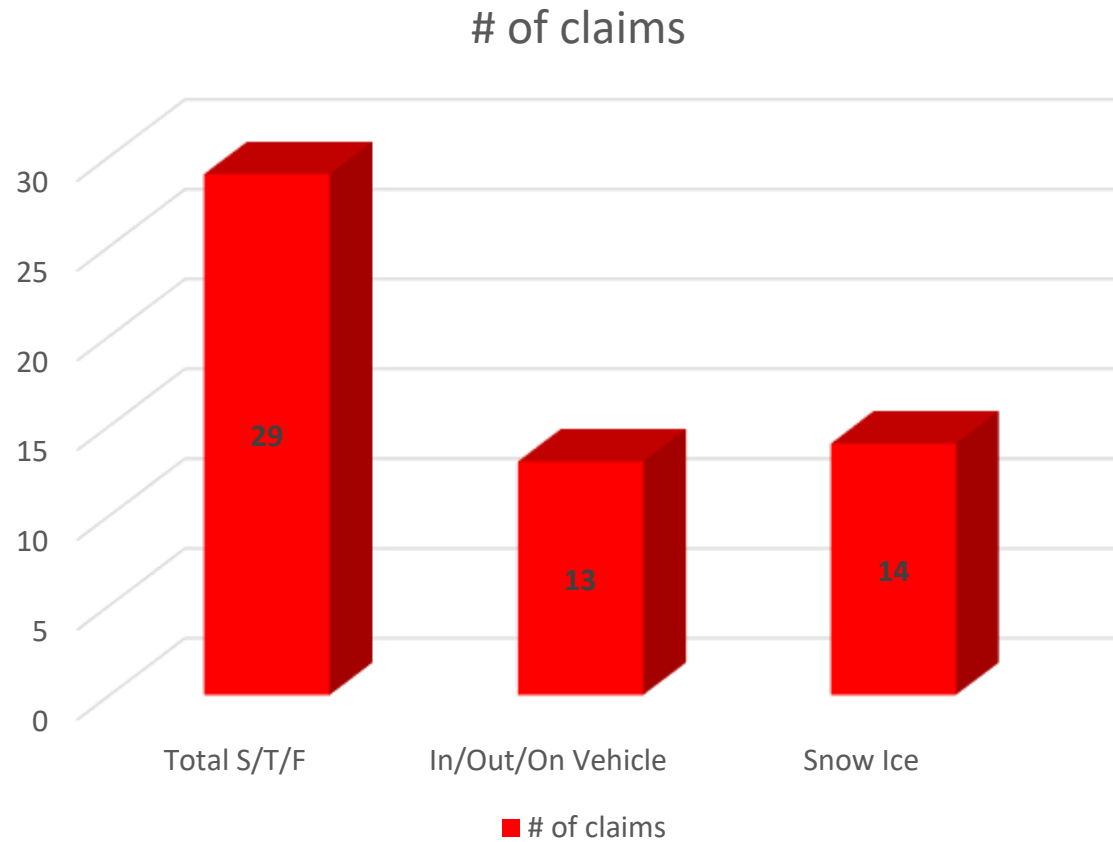
- Falling off equipment
- Slips and falls on ice and snow

How they got hurt, 2022 edition.

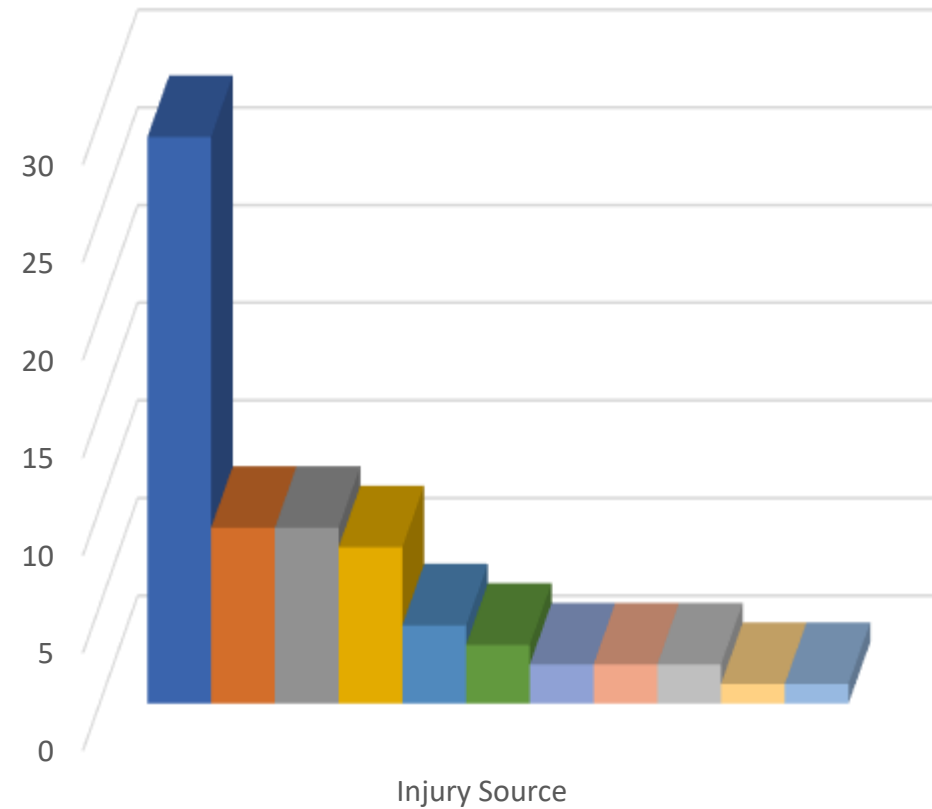


- Slip/trip/Fall
- Strain/Sprain
- Struck By
- Cut/Puncture/Scrape
- SBFO
- Insects
- Caught in or Between
- Motor Vehicle Upset
- Strike Against
- Burn/Scald
- Foreign Body

Slip, Trips, and Falls



How they got hurt, 2022 edition.



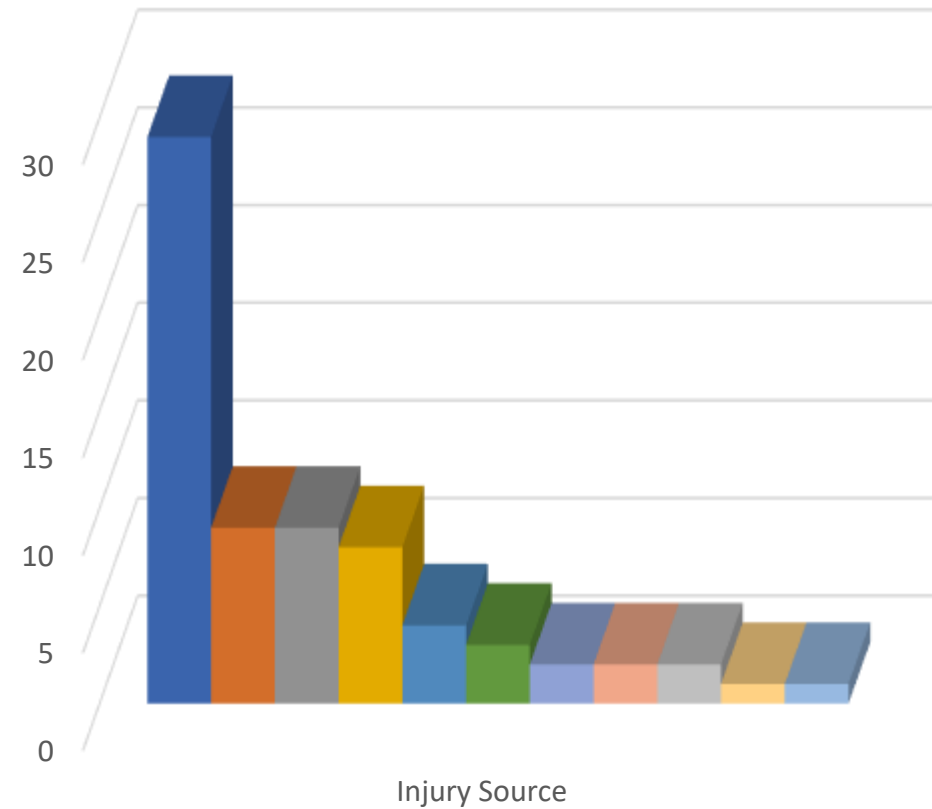
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HAND INJURIES

- 20% of all Highway Department claims involve the hands!
 - *Replacing cutting edges*
 - *Material handling*
 - *Hand and power tool usage*

How they got hurt, 2022 edition.



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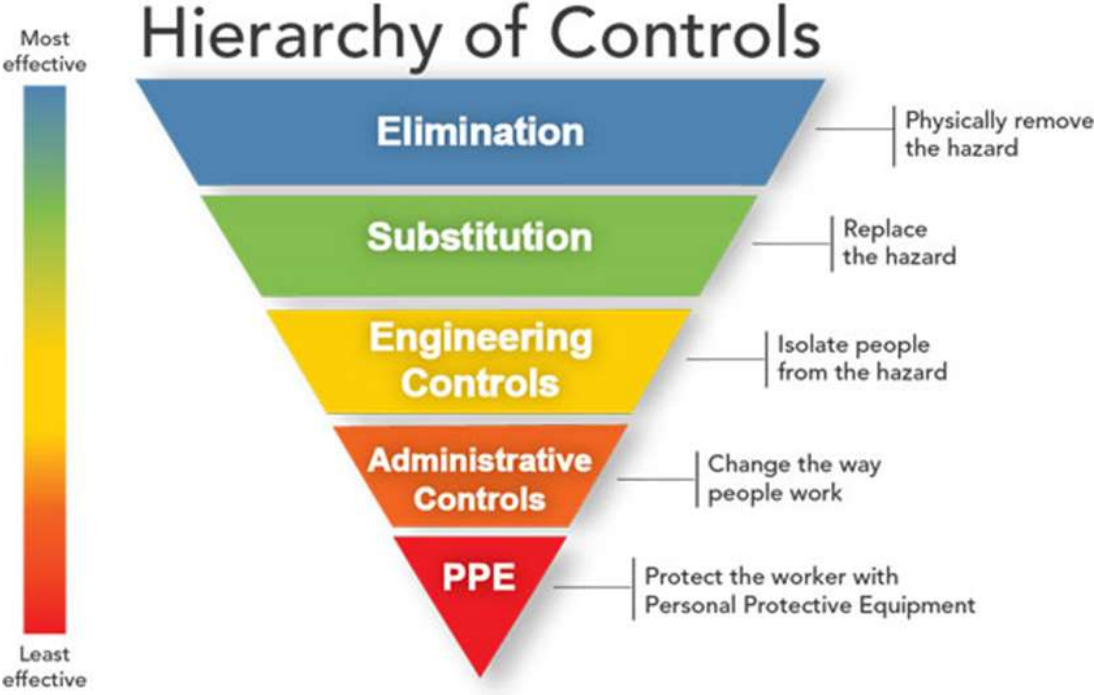
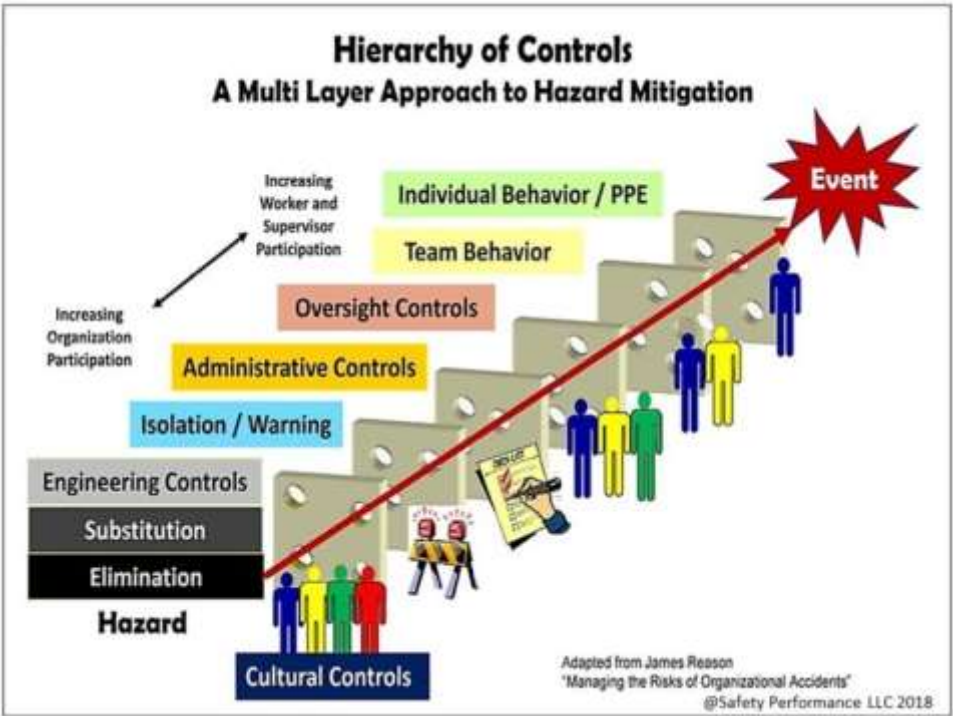


MVA's

MVA'S

- Low-frequency, High-Impact Events
- Average about 3/yr for last 3 years
- 2/3rds of incidents involve “upsets”
- 2019-2022: 9 of the 10 “worst” injuries have involved STF’s (7) or rollovers (2)
 - *Broken femurs*
 - *Destroyed shoulders*
 - *Blown-out knees*
 - *Traumatic Brain Injuries*

How do we fix it?



Preventing Hand Injuries

- Select and provide gloves that provide cut and impact protection.
 - Cut Level 3 – 5 (based on task)
 - Impact Level 1
- Make sure it fits and is comfortable.
- Eyes on task/Mind on Task



The NEW Impact Standard
Are you ready?

Table 1. Classification for Impact Resistance

Performance Level	Mean (kN)	All Impacts (kN)
1	≤ 9	< 11.3
2	≤ 6.5	≤ 8.1
3	≤ 4	≤ 5

Test Points
Distance from tip of finger

- 25mm from tip
- 50mm from tip
- ▲ Knuckle Impact

ANSI / ISO 15713-1
ANSI / ISO 15713-2
ANSI / ISO 15713-3

MCR SAFETY

Old ANSI Cut-Resistant Levels (Grains)	New ANSI Cut-Resistant Levels (Grains)	Applications By Cut Level
1 (200)	A1 Light cut hazards (200)	Material handling, small parts assembly (sharp edges), packaging, warehouse, general purpose, forestry, construction
2 (300)	A2 Light/medium cut hazards (300)	Material handling, small parts assembly (sharp edges), packaging, warehouse, general purpose, forestry, construction, pulp and paper, automotive assembly
3 (1000)	A3 Light/medium cut hazards (1000)	Material handling, small parts assembly (sharp edges), packaging, warehouse, general purpose, forestry, construction, pulp and paper, automotive assembly
4 (1800)	A4 Medium cut hazards (1800)	Appliance manufacturing, bottle and light glass handling, carving, dry-wall work, electrical, carpet installation, HVAC, pulp and paper, automotive assembly, metal fabrication and handling, packaging, warehouse, aerospace industry, food prep processing
5 (2500)	A5 Medium/heavy cut hazards (2500)	Appliance manufacturing, bottle and light glass handling, carving, dry-wall work, electrical, carpet installation, HVAC, pulp and paper, automotive assembly, metal fabrication and handling, packaging, warehouse, aerospace industry, food prep processing
	A6 High cut hazards (3000)	Metal stamping, metal recycling, pulp and paper (changing roller blades), automotive assembly, metal fabrication, sharp metal stamping, glass manufacturing, window manufacturing, recycling plant/wrapping, HVAC, food prep processing, meat processing, aerospace industry
	A7 High cut hazards (4000)	Metal stamping, metal recycling, pulp and paper (changing roller blades), automotive assembly, metal fabrication, sharp metal stamping, glass manufacturing, window manufacturing, recycling plant/wrapping, HVAC, food prep processing, meat processing, aerospace industry
	A8 High cut hazards (5000)	Metal stamping, metal recycling, pulp and paper (changing roller blades), automotive assembly, metal fabrication, sharp metal stamping, glass manufacturing, window manufacturing, recycling plant/wrapping, HVAC, food prep processing, meat processing, aerospace industry
	A9 High cut hazards (6000)	Metal stamping, metal recycling, pulp and paper (changing roller blades), automotive assembly, metal fabrication, sharp metal stamping, glass manufacturing, window manufacturing, recycling plant/wrapping, HVAC, food prep processing, meat processing, aerospace industry

Preventing Slip/Trips/Falls

- Ice Cleats!
- 3-points of contact climbing into/out of vehicles
- Use ladders/platforms/steppers instead of climbing on equipment.
- For the love of all that is holy:
 - Do not jump of the tailgate of the truck to the ground!
 - No jumping!
 - I mean it!



Preventing MVA's

- Eliminate distractions
- Monitor and manage fatigue
- Inspect and Maintain your equipment
- Wear Seatbelts!
 - Before the vehicle moves!
- TTCZ's
- Colors





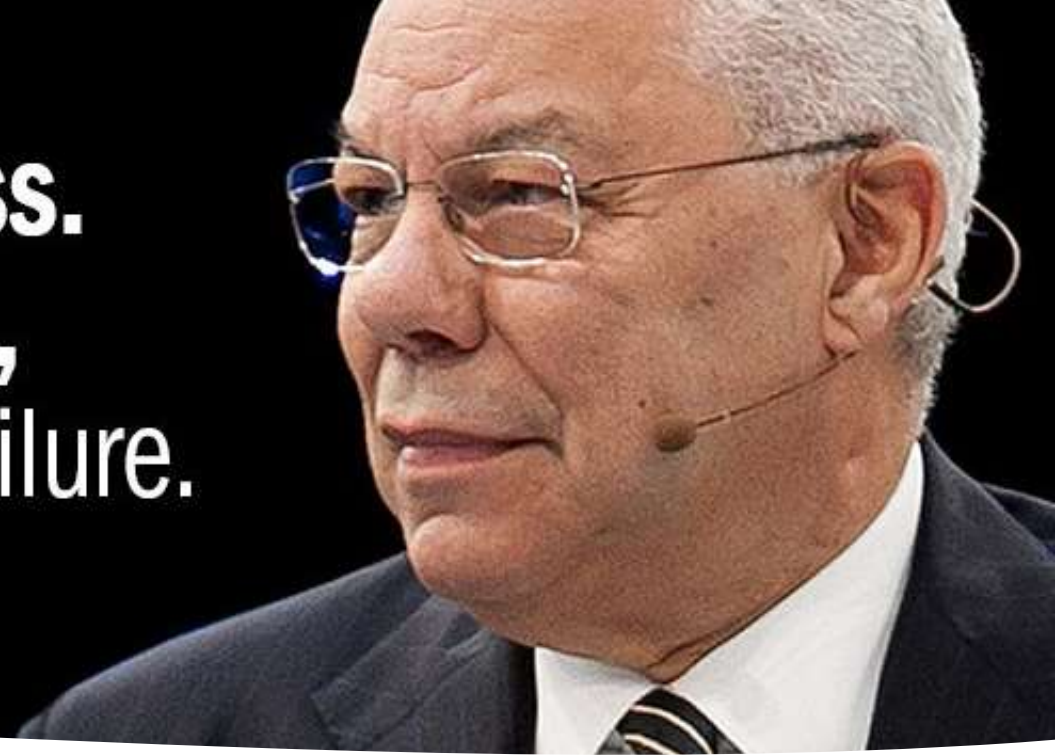
MVA's



Safety Leadership

“Leadership is the art of accomplishing more than the science of management says is possible.”

There are no **secrets to success.**
It is the result of **preparation,**
hard work, and learning from failure.



Demonstrate Safety Leadership

- **#1 thing you can do:**
 - **Talk about Safety!**
 - **Eyes on task/Eyes on Path/Mind on Task**
 - **Weekly safety meetings - Daily safety huddles/JSA's**
 - **After-action reviews when an incident happens**
 - **What went wrong?**
 - **What can we do better?**
- **#2 thing you can do:**
 - **Lead by example**



Questions/Comments

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