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Credential Verification

Certification ID search 'IL-1548' returned 1 records

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|-------------------|------------------|-------------|-------------------------|----------------|---|
| Stephen P. | Miller | Bolingbrook | IL | UNITED STATES | ISA Certified Arborist® ISA Certified Arborist Municipal Specialist® ISA Tree Risk Assessment Qualification |

[Explanation of ISA certification credentials](#)

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How I got here today

Diamond IL. 2013



Naplate IL. 2017



Hidden Dangers

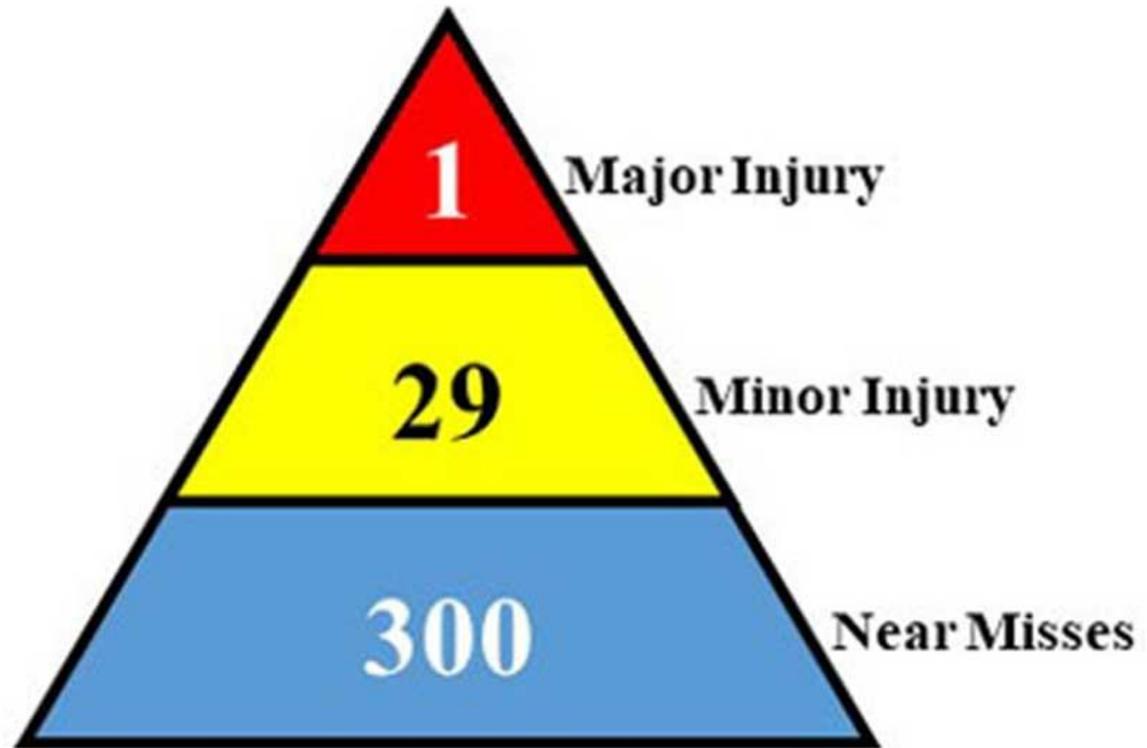
An Arborist Perspective



...before I was Arborist



Where am I at in this continuum?





Soooo here's what we have for Today

- Personal protective Equipment
 - Chipper safety
 - Chainsaw safety
 - Road safety
 - Dangerous situations
- 



PPE/ Lack of training COSTS all of us \$\$\$



- It has been estimated that employers pay almost \$1 billion per week for direct workers' compensation costs alone. The costs of workplace injuries and illnesses include direct and indirect costs.
 - Direct costs include workers' compensation payments, medical expenses, and costs for legal services.
 - Examples of indirect costs include: training replacement employees, accident investigation and implementation of corrective measures, lost productivity, repairs of damaged equipment and property, and costs associated with lower employee morale and absenteeism, higher work comp. costs
 - Additionally someone has experienced pain!!



PPE-Types of Personal Protective Equipment

- Eye protection – spectacles/goggles, shields, visors.
- Hearing protection –ear muffs and plugs.
- Hand protection –gloves and barrier creams.
- Respiratory protection -disposable, cartridge, air line, half or full face.



Eye protection



Figure 1. Prior to the surgical removal of the staple. The upper

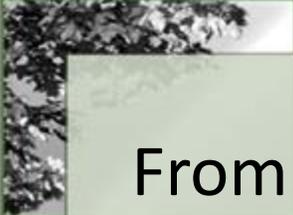


- **Wear protective eyewear during risky activities.** (*really any activity*) Wear safety glasses with side shields anytime you might be exposed to flying particles, objects or dust. (*Brush chipper?*)
- **Wear goggles when exposed to chemicals.** Take precautions even if you're just a bystander. (*EX: Mixing weed killer?*)
- **Each day**, about 2,000 U.S. workers sustain a job-related eye injury that requires medical treatment. However, **90%** of eye injuries **can be avoided** by wearing eye protection.
- (OSHA) Reports that work place eye injuries alone cost an estimated \$300 million a year in lost productivity, medical treatment and worker compensation.

Eye protection cont.



- What does an ER visit cost?
- Typical costs: An emergency room visit typically is covered by health insurance....
- For patients without health insurance, an emergency room visit typically costs from \$150-\$3,000 or more, depending on the severity of the condition and what diagnostic tests and treatment are performed.
 - When it's workers compensation does it cost more or less?

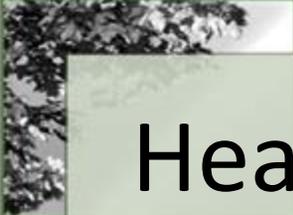


From: <https://www.rosenfeldinjurylawyers.com/workers-eye-injury->

- **Workers' Eye Injury Facts**

- Half a million workers injure their eyes each year.
 - Most eye injuries at work **could be prevented**.
 - Workers eye injuries are nearly half of all total head injuries that make them miss their work.
 - Workers' eye injuries cost the US hundreds of millions each year.
 - Young male workers suffer most eye injuries.
 - Most work eye injuries come from scratching, chemicals, penetration, or scraping.
 - Some workers get eye diseases that can be life threatening.
 - *Prevention costs are a small fraction of care costs for eye injuries.*
- 





Hearing protection

- (NIOSH) recommends that workers are not exposed to noise at a level that amounts to more than 85 decibels (dBA) over 8 continuous hours.
(Wood Chipper 110 db)
 - NIOSH estimates that 30 million U.S. workers are exposed to noise levels high enough to cause irreversible hearing loss.
 - According to the U.S. Bureau of Labor Statistics, more than 20,000 workplace hearing loss cases occur annually, many resulting in permanent hearing loss.
 - An estimated 24% of hearing loss in the United States has been attributed to workplace exposure, according to the CDC.
 - *We Must Self Regulate! We must take care of our staff!*
- 

Hearing protection cont.



- Research also shows that stronger occupational regulation of noise leads to safer sound levels. *(You don't say)*
- Did you know that hearing loss is the most common work-related injury in America? It's true. According to the CDC, approximately 22 million American workers are exposed to hazardous levels of noise annually.
- While not all those people end up with work-related hearing loss, those who do cost businesses an estimated \$242 million in worker's compensation claims, according to the U.S. Department of Labor.

\$242 million



Annual dollars spent on
worker's compensation for
hearing loss disability.

Source: U.S. Department of Labor
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Starkey
Hearing Technologies

Hearing protection cont.



\$30.00 for 100



\$12.59

\$17.09

Chipper safety

- Wood chipper injuries-data from 11/22/2016
 - Since 2015, OSHA has received 19 severe injury reports related to wood chippers with injuries including amputations and head trauma. Of those, five occurred because the chipper pulled fingers or arms directly into the blades, and four occurred when a machine's belt or pulley caught a body part and pulled it in.
 - James Blaney, 32, was working his job with Triple Crown Tree Co. when his foot became trapped in the machinery after he attempted to fix a jam.



Chipper safety cont.

- A young man was killed on his **first day** (seasonals?) in a new job after being pulled into a wood chipper. Mason Scott Cox, 19, of Gastonia, North Carolina, had taken a day's work at Crawford Tree Service to earn some extra money. Jon Crawford, Cox's employer, said the teenager was working “side by side with **TWO** experienced employees” when the accident occurred.



Chains

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your chainsaw



Chainsaw Safety cont.

- Inspect your chainsaw before starting to ensure that all the safety features are working and the chain is tight on the guide bar.
 - Never cut with the nose or tip of your chainsaw. This will cause kickback and can lead to a serious injury.
 - Never use a chainsaw to cut above your head.
 - Before you refuel, allow the chainsaw to cool down.
 - When moving from tree to tree either turn off your chainsaw or engage the chain brake.
 - **Don't use a chainsaw on a ladder.**
 - Keep your chainsaw out of the hands of untrained employees
- 

Chainsaw safe

Each year, hospital emergency rooms see approximately 30,000 catastrophic injuries from chainsaws. The most frequent chainsaw injuries occur to the left leg and the back of the left hand.



s 3,418

Area 2,141

nd Area 17,994

16,348

ot Area 2,885



Road safety

- Wear a vest
 - Have a plan before you go out.
 - Have high quality cones, barricades, lighting etc.
 - Proper signage and spacing for your speed limit.
 - Know your audience
 - Set up your work zone for least qualified driver
 - We have a duty to protect the worker AND the motoring public
 - Nationwide worker fatalities in 2017 217, IL. 6
- 



Side Bar-Difficult employees. A.K.A “The problem child”

- 5 types:
 - The Victim-poor me
 - The Hisser
 - Negative Nellie
 - The Ghost-the magician
 - The Narcissist-it’s all about me.
 - Reminder: The crew I send out represents my organization
- 

IPWMAN Deployment

- Create a “go bag”
 - PPE
 - Writing material
 - Insect repellent
 - Water container
 - What else?





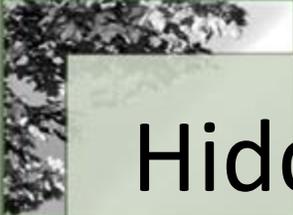
Hidden Dangers

- Communication between team members.
 - We need to establish at least the minimum
 - Lack of training/first time doing this type of tree work?
 - Removing fallen trees is different than removing a standing tree
 - Working in a different environment
 - A lot of energy and excitement during a deployment. Hurrupitis
 - You send your best team, but my team does not know your team.. Think of the all star team.
 - We send our best but they've not worked together before.
- 



Hidden Dangers cont.

- These are not normal work conditions.
 - Increased vehicle traffic in a confined area.
 - Civilian foot traffic.
 - Media.
 - The “do gooder”
 - The employee may be subjected to a different task than they are accustomed to and don't want to say no.
 - Is the electric really turned off...
 - Are you trained to assess a tree at risk.
- 



Hidden Dangers cont. *Courtesy of the TCIA*

- If the work requires you to leave the ground don't do it on a ladder!
 - Examine the shape and lean of the tree. Inspect the trunk for decay, weak spots or hanging limbs
 - Carefully inspect the tree and the surrounding area for anything – utility lines, structures, vehicles,.
 - Note other people in the area, particularly civilians. Create a “no go zone”.
 - Even small trees or limbs bent under tension can be extremely hazardous. Do not cut wood that is under tension (one or both ends are trapped under something).
- 



Hidden Dangers cont. *Courtesy of the TCIA*

- Ask yourself, “What will happen when I cut this branch/tree?” Consider all the possibilities.
 - Plan an escape route from the falling tree or tree part before cutting.
 - Do not use a chain saw for tree removal unless you are trained and experienced. Even tree care professionals face risk of injury using chain saws. Tree and branch removals are very unpredictable. Don’t take unnecessary chances!
 - If you have any doubts, ask a more experienced person or don’t attempt the job.
- 



What Injuries Could I Suffer?

- Scratches and bruises from tripping on exposed roots or fallen branches.
 - Fractures from falling branches or trees.
 - Traumatic brain injuries and concussions.
 - Paralysis from spinal cord injuries.
 - Death from being crushed or severe head injuries.
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IPWMAN Deployment Naplate 02/28/2018



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IPWMAN Deployment Naplate 02/28/2018



In Memorial

- Mayor Jim Rick





THANK YOU!!

- Please see me for question, comments or corrections.
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