

OSHA Update

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What is OSHA's Top Priority? To Reduce Injuries, Illnesses, and Deaths on the job in America



- Over 4,300 Americans died from workplace injuries and illnesses last year
- Over 3.3 million non-fatal workplace injuries and illnesses are reported
- On average, 13 workers die every day from job injuries

Who Bears The Costs of Injury and Illnesses?

- 50% - workers
- 21% - workers compensation
- 13% - private health insurance
- 11% - federal government
- 5% - state and local governments

TOP 10 Most Cited Violations 2014

<i>Description</i>	
1) Fall Protection	1926.501
2) Scaffolding	1926.451
3) Hazard Communication	1910.1200
4) Ladders	1926.1053
5) Lockout / Tagout	1910.147
6) Machine Guarding	1910.212
7) Powered Industrial Trucks	1910.178
8) Electrical Wiring Methods	1910.305
9) Respiratory Protection	1910.134
10) Electrical-General Requirements	1910.303

Total Inspections FY end 2013/2014

Comparison

- 2013 Massachusetts Inspections
1,743
 - Braintree 853
 - 57% construction
 - Andover 560
 - 69% construction
 - Springfield 330
 - 62% construction
- 2014 Massachusetts Inspections
1,534
 - Braintree 711
 - 51% construction
 - Andover 542
 - 66% construction
 - Springfield 393
 - 57% construction



National Indicators

- 75% Serious violations
- 25% In Compliance –Construction
- 2.1 violations per inspection (NIC)
- 52% Construction Inspections
- Average penalty per serious violation- \$2030

OSHA Stats

- **100,000,000** : Number of workers covered by OSHA standards
- **8,000,000**: Number of workplaces covered by OSHA
- **2258**: OSHA entire staff in fiscal 2014
- **1,539**: Field Enforcement Staff
- **\$571,000,000**: OSHA Budget request for 2014
- **40,961**: Inspections by OSHA in 2012

Major Causes for Fatalities

#	Cause	Percentage
15	Falls	34%
9	Struck/Crushed	20%
7	Forklifts / Aerial Lifts / Earth Moving Equipment	15%
3	Caught in	7%
3	Electrocution	7%
2	Other	5%
2	CO / Asphyxiated	5%
2	Tree Cutting	5%
1	Burns	2%

National Emphasis Programs

- Trenching and Excavation
- Combustible Dust
- Hazardous Machinery (amputations)
- Hexavalent Chromium
- Isocyanates
- Lead
- Nursing and Residential Care Facilities
- Primary Metals
- Process Safety Management
- Shipbreaking
- Silica



Local Emphasis Programs

- Noise in the Workplace
- Fall Hazards
- Mast Climbing Work Platforms
- Crane Operation in Construction
- Powered Industrial Trucks
- Residential Construction
- Crystalline Silica Exposure
- Scrap, Waste and Refuse Industries



OSHA Recordkeeping Update

- To require employers to record and report work-related fatalities, injuries and illnesses
- Recording or reporting a work-related injury, illness, or fatality does **NOT** mean the employer or employee was at fault.
- It does not mean the employee is eligible for workers' compensation or other benefits.

Employers are Required to:

- Keep records of Injuries and Illnesses and
- Report each worker **Death** within **8 HOURS** of the accident (1-800-321-OSHA)
- Report each incident that **Hospitalizes** 1 or more workers within **24 HOURS**
- Report each incident that results in an **Amputation or the Loss of an Eye** *Within 24 HOURS*

Four (4) Main Hazards

- FALL FROM
- CRUSHED BY/CAUGHT IN BETWEEN
- STRUCK BY
- ELECTROCUTED

OSHA investigating power line death

WHSV-TV (Harrisonburg, Va.)

September 13, 2015

**Construction worker dead after fall from
Kenwood building**

Chicago Sun-Times

September 14, 2015

Letcher County man killed in forklift accident

WKYT-TV (Lexington, Ky.)

September 14, 2015

**OSHA investigating McNeilus after machinery
nearly crushes worker**

KTTC-TV (Rochester, Minn.)

September 10, 2015

**Electrical worker dies after touching live wire
in Seffner**

Tampa (Fla.) Tribune

September 9, 2015

Fall From



Caught in between





Fall From.....

- In 2012 over 6,000 workers were injured in a fall at work in Massachusetts.
- Approximately 1,030 of these falls were to a lower level and resulted in half of these workers missing 16 days of work or more.
- Falls to a lower level resulted in nearly 12000 fractures in 2011

Splat Calculator

- 4 ft fall..... 11 mph..... .5 secs
- 10 ft fall..... 17 mph..... .8 secs
- 30 ft fall..... 30 mph..... 1.4 secs
- 200 ft fall.....70 mph..... 3.8 secs
- 1200 ft fall.....110 mph..... 10.7 secs

DANGER

WALK ON DUCT WORK

"ONLY"

CEILING TILES ^{over} BALLROOM

50 FOOT DROP

Be Careful



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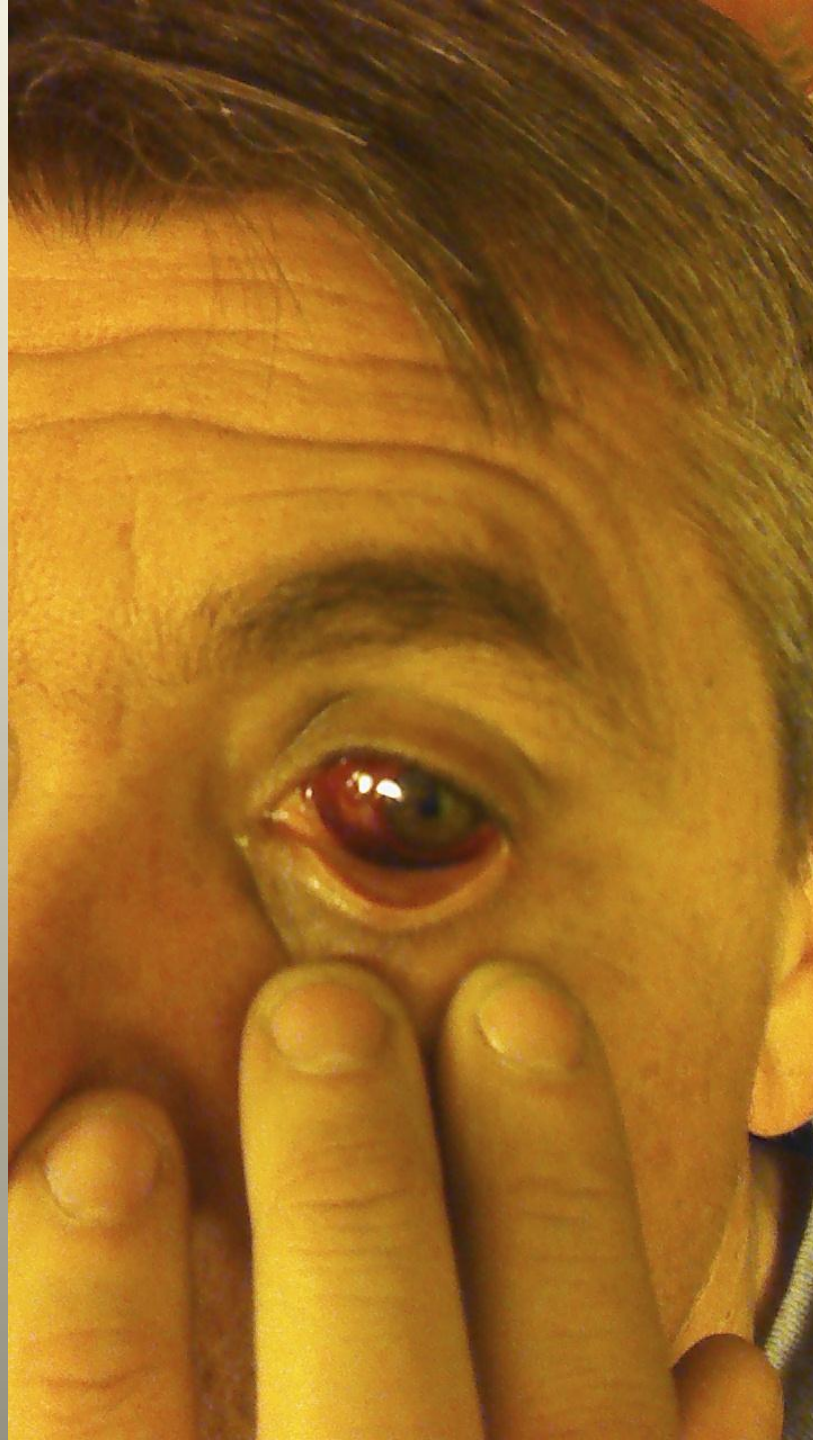
Crushed by/caught in between



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Struck By Hazards









Electrocution



Electrical Safety Statistics

- Average of 4000 non-disabling and 3600 disabling electrical contact injuries annually in the United States
- Average of 5 people per week are electrocuted in the workplace.
- Over 2000 workers are sent to burn centers each year with electrical-related burn injuries

Electrical Safety Reality

- Workers are injured or killed everyday working on electrical systems
- Most injuries are a result of unsafe work practices
- Many workers do not understand electricity or know the OSHA/NEC electrical safety regulation requirements
- Many workers are NOT QUALIFIED to perform their assigned tasks!!!

Health Concerns

- Formaldehyde
- Hexavalent Chromium
- Silica
- Heavy metals (iron, copper)



- Combustible Dust



Hot Topics

- Heat stress
- Powered Industrial Trucks
- Falls and walking working surfaces
- Workplace violence
- Amputation hazards
- Distracted driving
- Tree trimming
- Cranes
- PSM
- VPP Review
- Work zone safety
- Safe Electrical Work Practices
- Victim's Family Rights
- Customer service



Safety and Health Value

- Estimated \$170 billion in costs associated with occupational injuries



Direct Savings

- Lower compensation costs
- Reduces medical expenses
- Reductions in back to work programs
- Reduction in faulty products
- Reductions in job accommodations for injured workers
- Reduction in overtime costs

Indirect Savings

- Increase productivity
- Better products
- Better morale
- Better labor/management relations
- Reduced turnover
- Better use of human resources

Do You Know How Much Accidents Are Really Costing?

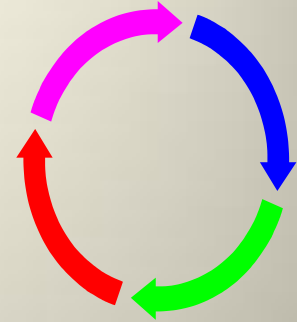
- *Accidents are more expensive than most people realize because of the hidden costs*
- *This iceberg visually demonstrates the relationship between direct and indirect costs of accidents*



Fractured Leg

- Direct Costs-----45,377
- Indirect Costs----49,914
- Total Cost \$ 95,291
- Profit Margin- 5%
- Total additional Sales/Revenue needed to cover Cost of Accident---\$1,905,000

Major Elements



- An effective occupational safety and health program will include the following four elements:
 - Management commitment and employee involvement
 - Worksite analysis
 - Hazard prevention and control
 - Safety and health training

- Hazard Assessment
- Hazard Analysis (JHA's JSA's HAZOPS SOP's)
- Accident Investigations
- Root Cause Analysis
- Continuous Improvements
- Near Misses
- Recognition
- Documentation
- Safety Culture

■ Communication!!

**SAY WHAT YOU DO.....DO
WHAT YOU SAY!**

**Think
Safety
First!**

Think Safety
Think Safety
Think Safety





OSHA

413-785-0123