



#### **Aurora, IL Henry Pratt Company Shooting** February 15th, 2019





- · Lengthy Criminal Record
- History of Violence
- · Terminated from Job
- · Prior Threats
- · History of Erratic Behavior
- Illegal Gun Possession

In general, we are bad at predicting violence.	
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WORK to ZERO an INSC program	
Eliminating Fatality Risk with Technology	
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What actions or	
behaviors come to mind when you think of	
workplace violence?	
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# **Workplace Violence:**

Any act or threat of **physical violence**, **harassment**, **intimidation**, or other **threatening disruptive behavior** that occurs at the worksite. It ranges from threats and verbal abuse to physical assaults and even homicide. (OSHA)

• Homicide
Weapons Violence
Simple Assault
Domestic Violence
Stalking or Harassment
• Bullying

Intimidation

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## Violence is a Leading Workplace Hazard

#	Event or Exposure	# Fatalities	% Fatalities
01	Falls, Slips, Trips	8,789	27.2%
02	Workplace Violence	8,643	26.7%
03	Contact w/ Object or Equipment	7,986	24.7%
04	Exposure to Harmful Substances or Environments	5,690	17.6%
05	Fires and Explosions	1,245	3.9%

U.S. Bureau of Labor Statistics, 203

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U.S. Bureau of Labor Statistics, 20

#### The Rise of Violence in the United States

#### Instability Stress Behavior • 100k Overdoses in 2021 Inflation · Economic Uncertainty • 4.3% Increase in Homicides · Political Divisiveness • 4% Increase in Suicides • COVID-19

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## **Four Types of Workplace Violence**



· International Relations



Perpetrator has no relationship with the employees or organization.



Customer/Client 7% of Fatalities

Perpetrator is a client, customer, or patient of the organization.



Worker-on-Worker 5% of Fatalities

Perpetrator is a current or former employee, vendor, or contractor.



• 23% Increase in WPV

Interpersonal 3% of Fatalities

Perpetrator has a prior relationship with the victim(s).

University of Iowa Injury Prevention Research Center, 2001

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#### The Consequences are Wide-Spread



Physical



**Psychological** 



Financial



Social

Organizational	Outcomes
(Lanctot & Guay	, 2014)

· Increased fear

- · Increased turnover
- Absenteeism & tardiness
- Reduced job performance
- · Reduced commitment

Workp	place violence drives talented	
	workers to resign.	
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Risk Factor	s for Workplace Violence	
	- 101 Hornigan	
Environmental	Lack of "natural surveillance"	
	Work in high-crime areas	
	Work in unstable socio-political environment	
	Poorly lit worksites	
	Work in/near places that serve alcohol     Lack of communication means	
	Lack of communication means     Long waits, especially in uncomfortable or crowded areas	
	Esting Hallo, expession, in ansonins rapic of storage disease	
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Risk Factor	s for Workplace Violence	
	Public-facing work, saying "no"	
	Lone or isolated work	
	Work in/around customers' home	
Occupational	Work w/ volatile or unstable individuals	
	Work w/ people w/ history of violence or substance abuse	
	Handling cash or valuables	
	Delivery of passengers or goods	
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### **Risk Factors for Workplace Violence**

- Acceptance of workplace violence as "part of the job"
- Chronic labor vs management disputes
- Authoritarian or oppressive management
- · Chronic, dangerous work conditions
- Frequent injury claims, especially for psychological stress
- Understaffing and/or excessive demands for overtime
- Low employee engagement results

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Organizational

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#### Do You Need a Prevention Plan?

- OSHA's General Duty Clause: Violence is a Foreseeable Risk
  - Failure to recognize and prevent workplace hazards
  - · Negligent hiring, retention, or supervision
  - Negligent training
- · Additional Benefits:
  - Increased feelings of safety  $_{(\mathrm{SHRM},\,2019)}$
  - Heightened reporting confidence (SHRM, 2019)
  - Higher levels of employee satisfaction (Aytac & Dursun, 2012)

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#### ~\$350b Annual Economic Impact

63037 National Safety Council

## Elements of a Prevention Plan $_{(OSHA,\, 2016)}$



### **Workplace Violence Technologies**

Virtual Re Trainin		Access Control Solutions	Audio/Vio Analytic		Panic/Dure Buttons	ss Intelliger Manage	
Pre	event			te		Respond	
-	Social Me Monitorii			Lone Wo Monito		Video Cameras	
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# **Virtual Reality Training**



VR training immerses users into a life-like, computer-generated environment via a VR headset or computer display, often with a 360° view.







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### Social Media Listening



Software which collects, analyzes, and flags public access online conversations about a specific brand, company, topic, keyword, etc.

 $\begin{tabular}{ll} \bf 56\% & \text{of active shooters shared their} \\ & \text{intent}_{(FBI,\,2014)} \end{tabular}$ 

Average number of red flags exhibited by active shooters (FBI, 2014)



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### **Social Media Listening**









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#### **Access Control Systems**







Systems designed to restrict access to a particular building or worksite; often equipped to send an alert of unauthorized or potentially dangerous entries.







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Weapons Detection Systems	
Machine learning or Al-powered Software which collects, analyzes, and flags public access online conversations about a specific, company, topic, keyword, etc.	
PRINTING THE PRINT	
(Video by Evolv Technology)  #INSC  COMMERCIA: EXCES Secure Admin Commercial  (Video by Evolv Technology)	
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Video/Audio Analytics	
Machine learning or Al-powered software which monitors, analyzes and manages video or audio data. Algorithms can be trained to identify a variety of objects, sounds, or actions.	
Visual Signs of Crowd Facial Audible Signs of Gunshot Glass Aggression Monitoring Recognition Violence Detection Breaking	
::nsc (MARON ESTIMATION )	
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### **Lone Worker Monitoring**

Technology, oftentimes a mobile app or wearable device, which protects lone workers through real-time GPS tracking, fall detection, and two-way communication capabilities.





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#### **Panic/Duress Buttons**

Wearables, mobile apps, or hardware which enables employees to discretely send SOS alerts in emergency situations.







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Video Surveillance Systems	
Includes the use of closed—circuit television (CCTV), public view monitors (PVMs), or body-worn cameras to surveil a building, area, worksite, etc.	-
57% Decrease in violent crime in parking lots (Welsh & Farrington, 2009)	
23% Decrease in violent crime in public transit systems (Wetch & Farrington, 2009)	
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Intelligent Case Management	
Software solutions that help organizations track workplace incidents, analyze trends, and generate actionable reports.	
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::nsc (SMANNA BELLIAMOR CONT.)	
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Technology is <u>not</u> the end all for workplace	
violence.	
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# **Adding Back the Human Element**

- Technology should facilitate, not replace, other administrative controls:
  - · Zero-tolerance violence policy
  - Clear and well-communicated reporting procedures
  - Employee training, especially in recognizing and deescalating conflict
  - Employee wellness benefits, EAPs
  - Enabling two-way communication for employees

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#### **Making Innovation Accessible**



www.nsc.org/WorktoZero



#### **Additional Resources**

- · Workplace Violence Report & Playbook
  - Workplace Violence Overview
  - · Elements of a Prevention Plan
  - Technology Solutions
  - Actionable Tools & Resources
- · Kenna.Carlsen@nsc.org



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