



RELEVANCE OF 'S' IN HSE

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Firstly, What is It?

- Occupational Safety is the management of workplace dangers, eliminating or reducing them to an acceptable level so as to prevent injuries or fatalities and property damage or loss.
- Provision of a safe workplace is not only a legal and moral requirement, getting it right can yield significant company cost avoidance.

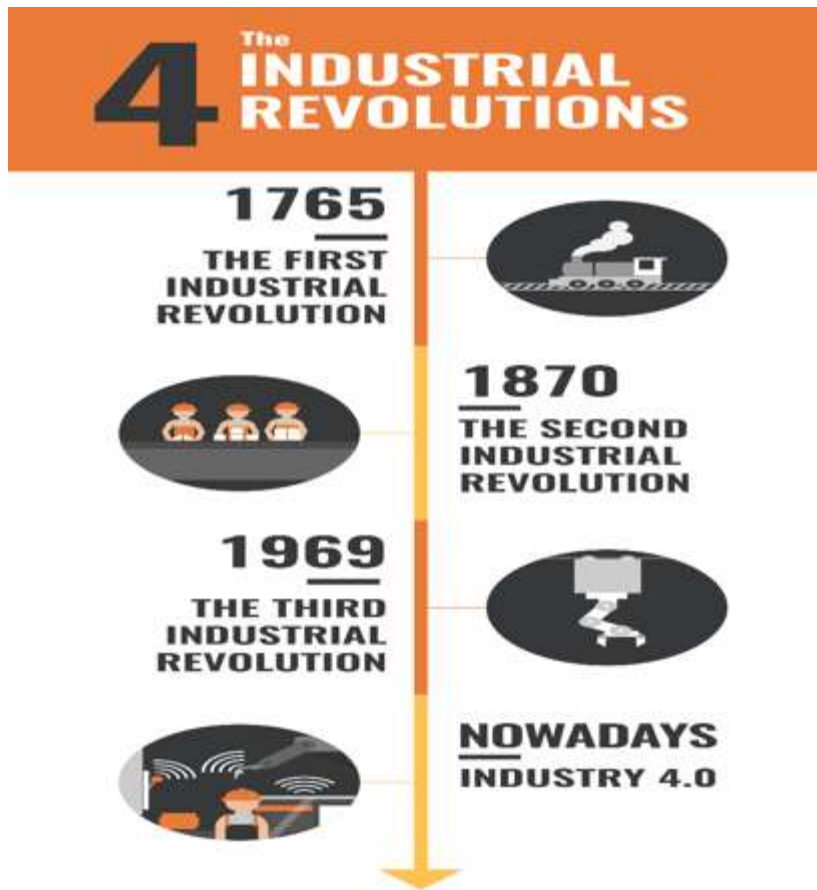
How It All Began!

Industrial Revolution – 1st

- Characterized by the introduction of the first known set of industrial machines
- Use of steam and water power
- Use of hand tools

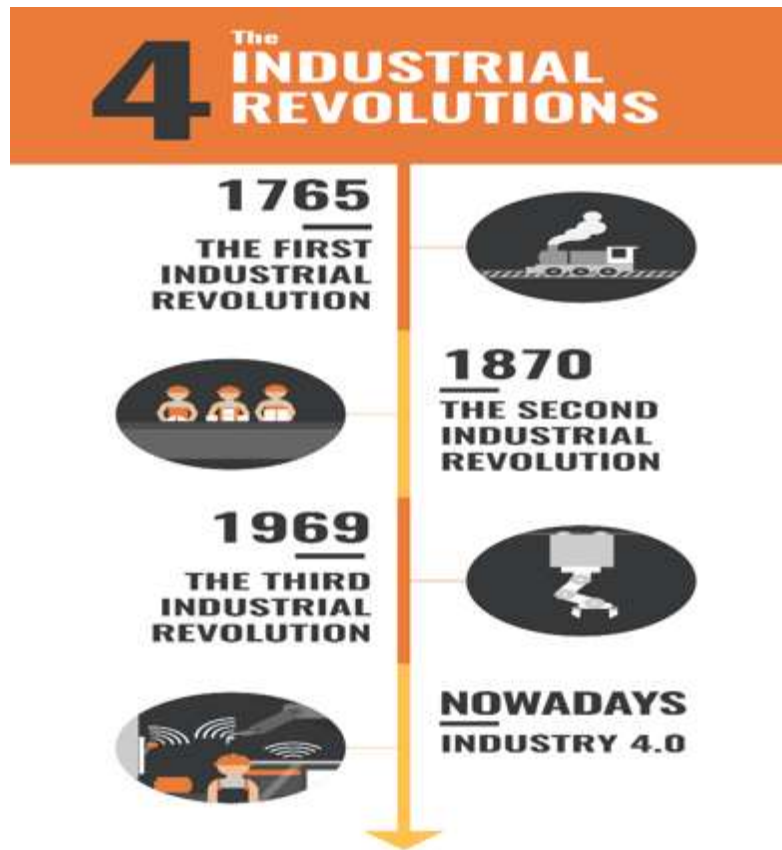
The textile industries of Great Britain and the United States were the most affected by phase of the industrial revolution.

- Following this were series of accidents to workers many of whom were women and children



Picture source : <https://www.sentryo.net/the-4-industrial-revolutions/>

How It All Began!



Industrial Revolution – 2nd & others

- Characterized by the introduction of new technologies in new steel making process
- Mass production and assembly lines
- Introduction of electrical grid systems
- Large scale manufacture of machine tools
- And More advanced machinery in steam powered factories
- Increase in chemicals and hazardous substances

All causing major accidents and resultant consequences

Picture source : <https://www.sentryo.net/the-4-industrial-revolutions/>



Why the H S E Trio?

- Managing HSE is about loss prevention
 - To People (their health & safety)
 - To Environment (System and Resources)
 - Assets, Equipment, Properties
 - Production, Productivity, Profits, etc
- This is why most times, the differences are never taken into serious considerations.



Safety's Central Mission

Safeguard people, the business and its property by preventing injury, death, damage or loss.

Health Vs Safety

- Both seek to prevent harm to people.

For ease of understanding:

- Health focuses primarily on workers' *long-term* mental and bodily integrity (e.g. Stress, Noise-induced hearing loss, breathing illnesses).
- Safety seeks to prevent more immediate sources of harm to people, damage or destruction of property.



Health vs. Safety



Safety vs Health

- Safety and health although **closely related are not the same.**
- One view is that
 - **Safety** is concerned **with injury-causing situations**, whereas **health** is concerned **with disease causing situations.**
 - Another view is that **safety** is concerned with **hazards to humans that result from sudden severe conditions**; **health** deals with **adverse reactions to prolonged exposure to dangerous but less intense hazards.**
 - An **acute effect** is a sudden reaction to a severe condition, while a **chronic effect** is a long-term deterioration due to a prolonged exposure to a milder adverse condition (Asfahl).

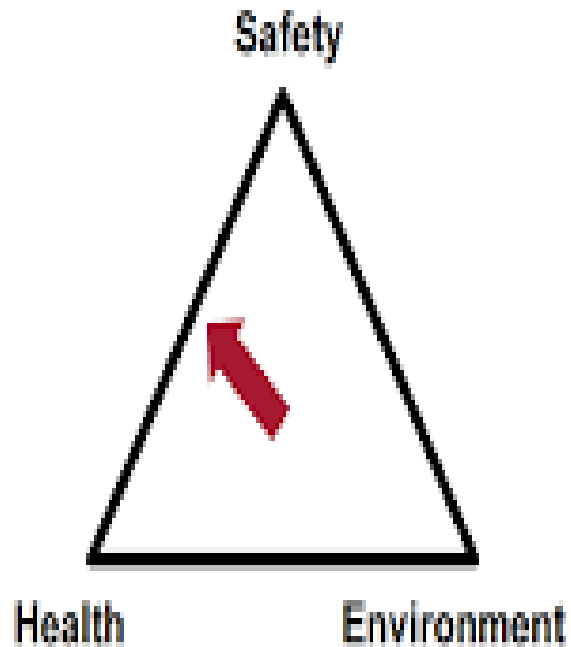




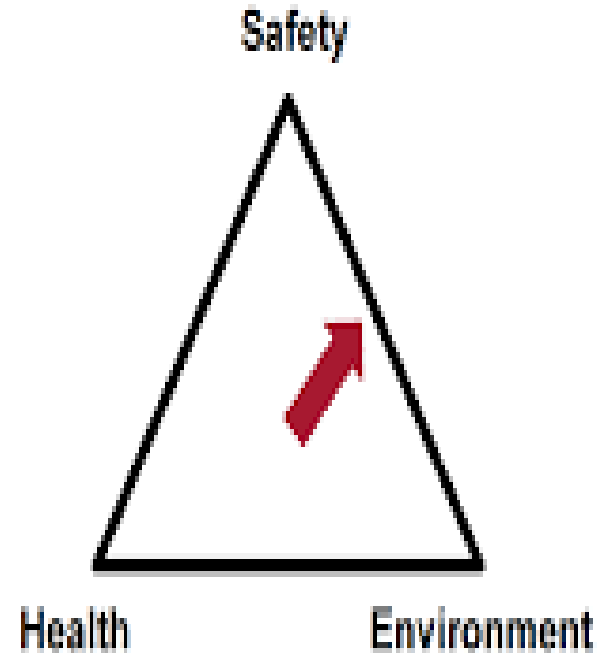
Safety Hazards - Examples

- Safety hazard - handling chemicals, work-at-height where not only can workers fall, but so can their equipment onto people below, maintenance of heavy machinery that must be de-energised and “locked-out”, leaving no residual electrical or other energy, and which cannot re-start with the technician inside.
- How many more safety hazards do we know?

Personal Safety



Process Safety



Safety: The 2 Legs



Personal Safety relates to the safety of the employees/ contractors/ visitors /public



Process safety refers to the actual operational safety and prevention of long-term harm to environment.



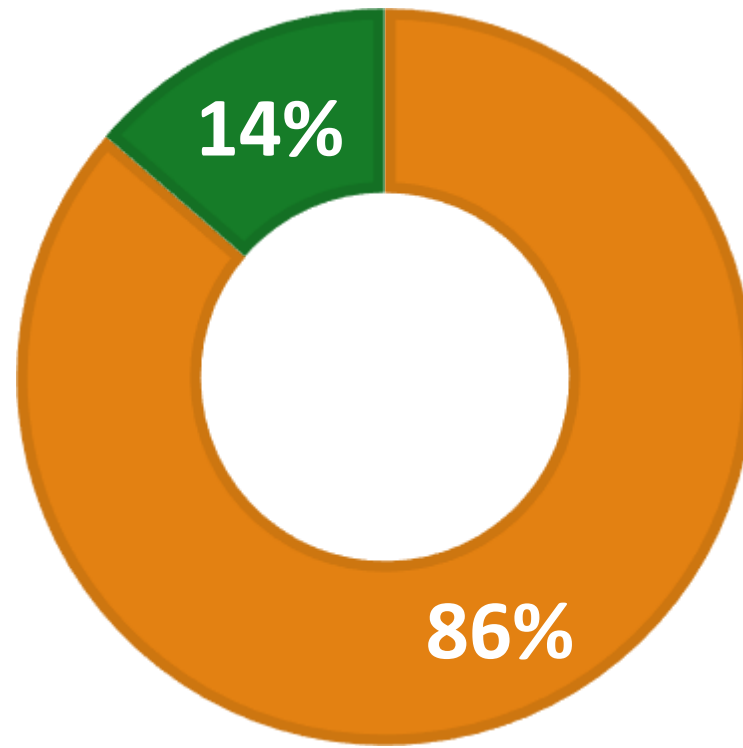
Safety Emphasis: Why?

- Immediate
- Short term
- Visible
- Physical

Should this be any reason for such emphasis?

WORK-RELATED DISEASE STATISTICS

■ Work related diseases ■ Non- disease related



Safety Emphasis: Why?

- Every year 2.78 million workers die from occupational accidents and work-related diseases
- 2.4 million are disease-related
- 374 million workers suffer from non-fatal occupational accidents.

ILO health and safety Statistics - 2019



A Cautious Paradigm Shift

- The last 3 years have seen emphasis on the H in the HSE – ILO & other programs
- **This should not however mean no actions on SAFETY**
- Especially in our part of the world where SAFETY is just beginning to make sense, even business sense to majority

Today's Safety Professional

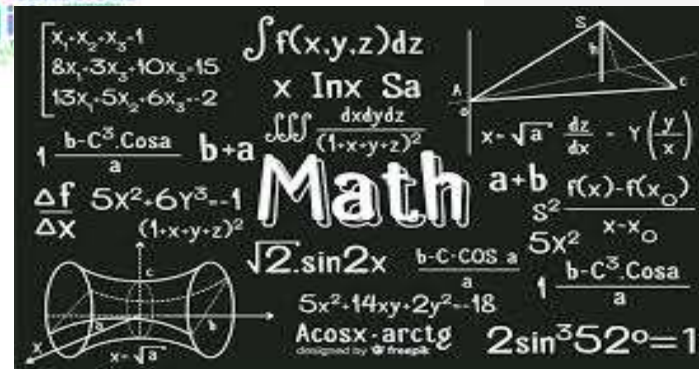
ARE
WE?



ASSP - YOUNG EMERGING PROFESSIONALS

But we should know a little in all areas...multi-
knowledge & skills

Multidiscipline Knowledge



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Benefits of safety management system	
	Proactively identifies safety hazards
	Improves statutory compliance
	Proactively addresses safety risks
	Prevents accidents and incidents
	Improves employees morale
	Reduces organizational financial burden

The Deming Circle

Safety
Management





The Future of Safety

The Fourth Industrial Revolution

- Artificial intelligence,
- Autonomous vehicles,
- Robotics and the internet of things

Safety risks are evolving, so will be it's practice



Health and Safety professionals must be able to speak the language of the new industrial revolution (automation, AI, etc)

So Learning Continues



**Robots are replacing humans at Amazon's
warehouses**

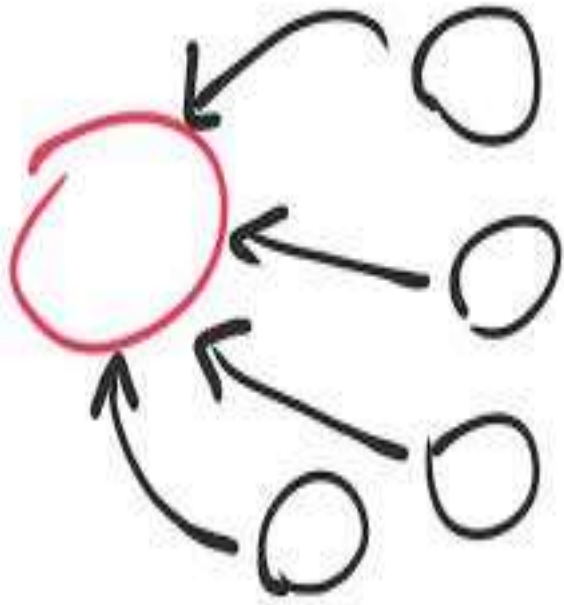
The Future of Safety



**Autonomous/driverless vehicles are being tested
in some countries**

ASSP - YOUNG EMERGING PROFESSIONALS

Final Word



- Safety deals with the workplace, its people (employees, contractors and visitors), and the equipment and tools they use and rely on.
- Preventing injury or death doesn't just result in happier employees, it enables the business to focus on its vision
- Similarly, preventing property damage or loss avoids unscheduled downtime, repair costs, and reduces risk exposure.
- Safeguarding employees isn't just the right thing to do, it's mandatory! It's Legal! It's Ethical!
- Safety makes good business sense.

Credits & References

David Adeoye

- *EHS Manager, BAT*

Taiwo Folorunsho

- *Hybrid-DGM Ghana Limited, Ghana*

ASSP – American Society of Safety Professionals

IOSH – Institution of Occupational Safety & Health, UK

ILO – International Labour Organisation



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Thank you | | Questions