STRATEGIES FOR PREVENTING FATAL ACCIDENTS

Kanwer Khan, CSP, CRSP, QEP, P.Eng. VP – EHS&S



CLASSICAL INJURY PYRAMID





TREND IN FATAL & NON-FATAL ACCIDENTS INDUSTRY AVERAGE





FATAL ACCIDENTS

In the last 10 years, Frequency Rate has reduced by drastic 75%...

Number of fatalities...





FATAL ACCIDENTS: NO MAJOR REDUCTION SINCE 2008





LIMITATIONS OF INJURY PYRAMID



Classical Bird's Pyramid



WHAT DID WE LEARN?

All fatal accidents were carefully analysed

Conclusion: All of these could have been prevented

How? >85% OF Fatal Accidents could be prevented by following few basic rule



FOUR MAJOR CAUSES

Four causes account for 77% of fatal accidents



All fatalities, including employees, sub-contractors and temporary workers

LIFE SAVING RULES

- After further analysis of accidents with potential of fatalities, 10 Life Saving Rules were selected.
- Our analysis indicate that if these rules were followed, over 85% of accidents with potential of fatality could be prevented.





LIFE SAVING RULES IMPLEMENTATION STRATEGY

- Establish a set of Universal Core Rules;
- Promote individual and collective vigilance;
- React to every apparent discrepancy;
- Stop activity as soon as a rule is broken.



OUR LIFE-SAVING RULES



ZERO FATAL ACCIDENT



DO NOT WALK OR STAND UNDER A LOAD



Fatal Accident - March 2013





STAY OUT OF THE PATH OF MOVING VEHICLES, PLANT AND EQUIPMENT





Fatal event – January 2013







Fall of a roofer, External Company









ONLY ENTER A TRENCH IF THE APPROPRIATE WALL SUPPORTS ARE IN PLACE





Fatal event – April 29, 2011



TEST ATMOSPHERE BEFORE ENTERING A CONFINED SPACE AND MONITORED AS YOU WORK.





Fatal event - June 2004











A fire broke out following a gas leak on a pipeline on the same site resulting in fatal accident 2011: 03 accidents (severe burns) by gas inflammation during works on gas distribution network





VERIFY THAT THERE IS NO LIVE ENERGY BEFORE STARTING WORK



Fatal event – July 2010



OVER STATES OF ANY OFFER OF ANY OFFER COMMUNICATION TOOL WHEN DRIVING.







DO NOT DRIVE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS





Fatal event - March 2006





SIGNAL, REDUCE SPEED, CHECK MIRRORS BEFORE TURNING OR REVERSING



Reversing Loader - 2011



2012 – Turning Cyclist.



OUR LIFE-SAVING RULES





Life Saving Rules			
	Do not walk or stand under a suspended load.	6	Do not perform hot work until the fire or explosion risks have been eliminated.
	Stay out of the path of moving plant and equipment.	7	Verify that there is no live energy (mechanical, chemical, electrical, fluids under pressure, etc.) before starting work
3	Clip on and tie-off your harness when working at height.	8	Do not handle your phone or other communication devices when driving.
4	Only enter a trench if appropriate protection against collapse is in place.	9	Do not work or drive under the influence of alcohol or drugs.
5	The atmosphere must be tested safe before entering a confined space and monitored as you work.	10	When turning or reversing a vehicle; signal, slow down and check that nobody is in your path.