

# Causes & Consequences of Accidents

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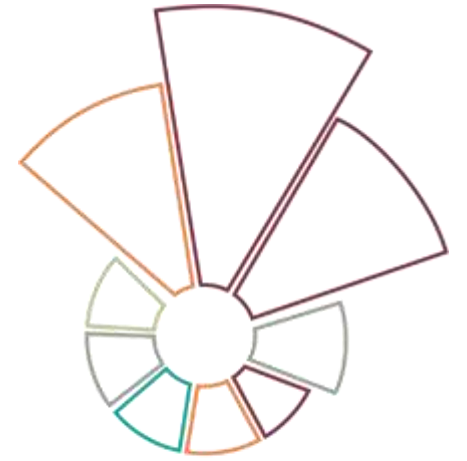
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## Definition of Accident

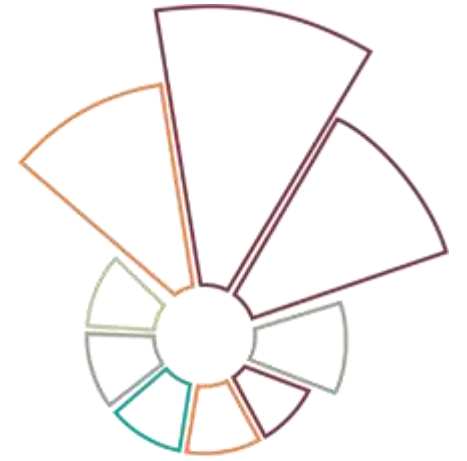
An Accident is an unwanted occurrence, which may or may not cause injury to personnel, damage to equipment & property.



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## Causes of Accident

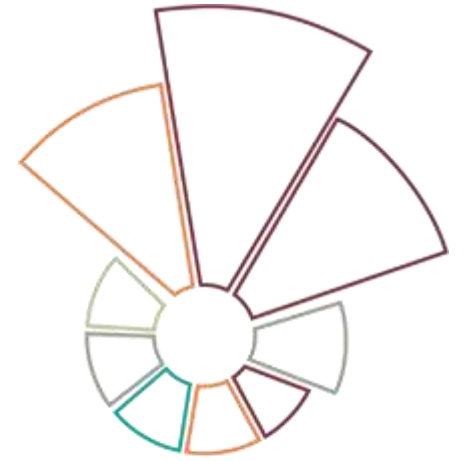
- Accidents are primarily caused by unsafe Acts & Unsafe Conditions.
- Unsafe Acts (At Risk behavior) – are behaviors/acts displayed by an employee or worker, without taking into consideration of his personal safety & the safety of his colleagues working with him.



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## Unsafe Acts Contd (eg)

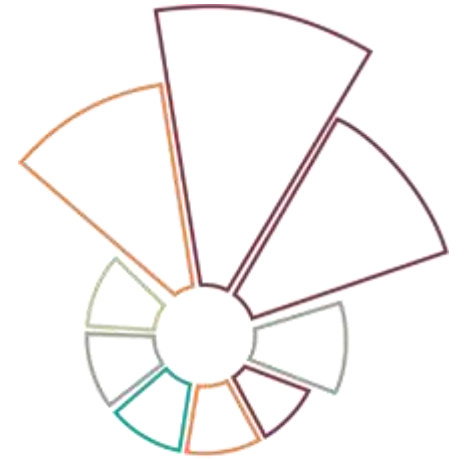
- Improvised Tools
- Working @ unsafe speed
- Disobedience to Safety rules & Regulations
- Altercations (Quarreling, fighting, etc)
- Wearing Loose Clothing
- Horse play



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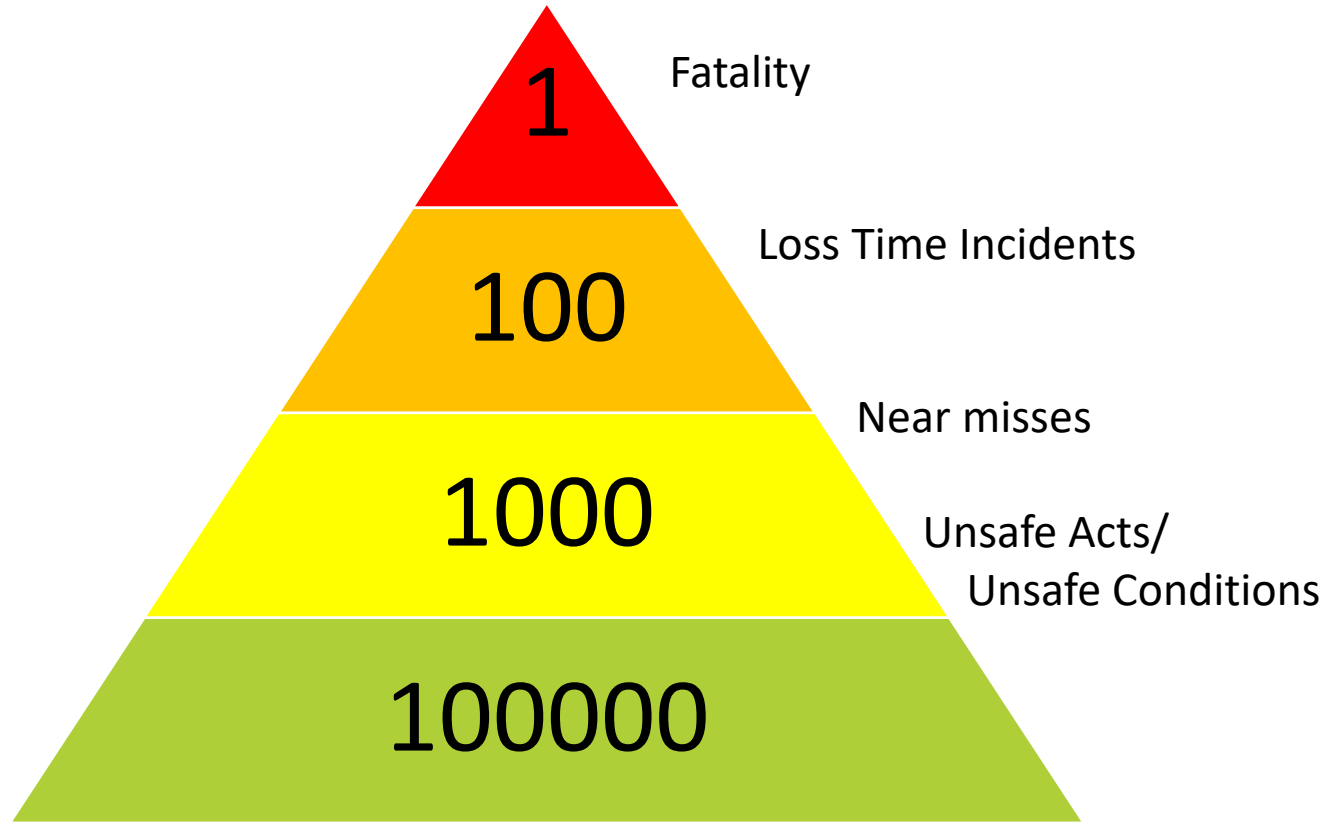
## Unsafe Condition

- Unsafe Condition is defined as any condition in any given work environment that is capable of causing Accident. Eg-
  - Oil on a deck or floor (Slip & Fall)
  - Hole or opening on a walkway
  - Poor illumination
  - Poor ventilation, etc.

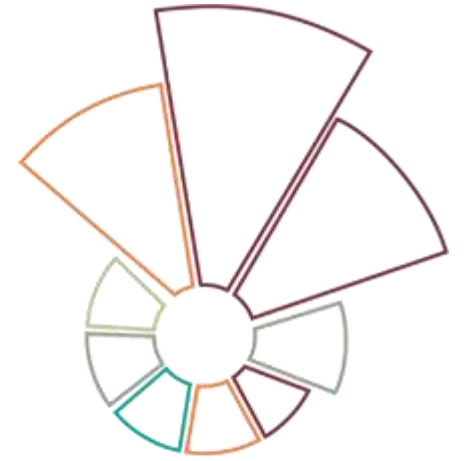


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# Safety Iceberg (Pyramid)



UA + UC = Accidents  
What caused the accident? = Human Error!



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# Incident Ratio Model – Heinrich's Theory

Most Accident  
Investigations  
Conducted

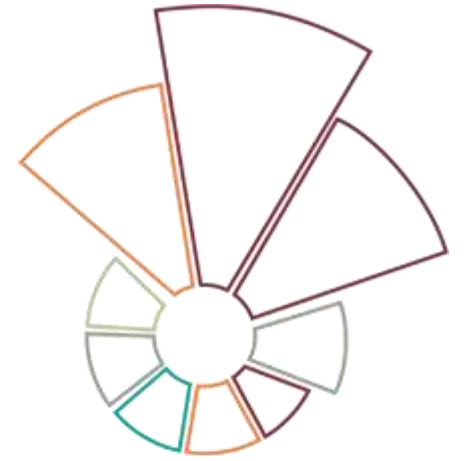


Few Investigations  
Conducted



## Main Causes of Accidents

- Taking Short Cuts
- Being Over Confident
- Starting a task with incomplete Instructions
- Poor Housekeeping

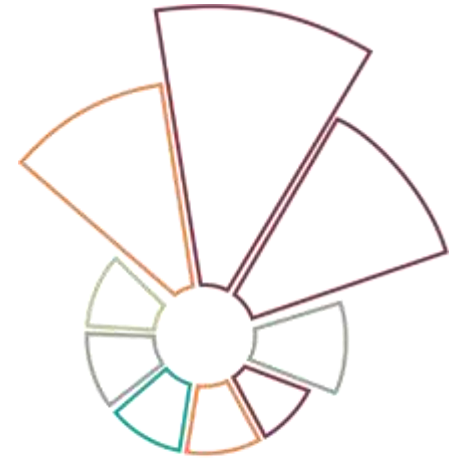


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## Main Causes of Accidents (Contd)

- Ignoring Safety Procedures
- Mental Distractions from Work
- Failure to Pre-plan the Work



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## Research Methodology

- Data acquisition:
- The dataset used for this project was sourced from different sectors of the oil & gas industry.
- A total of 150 questionnaires were distributed but only 98 were returned for analysis.

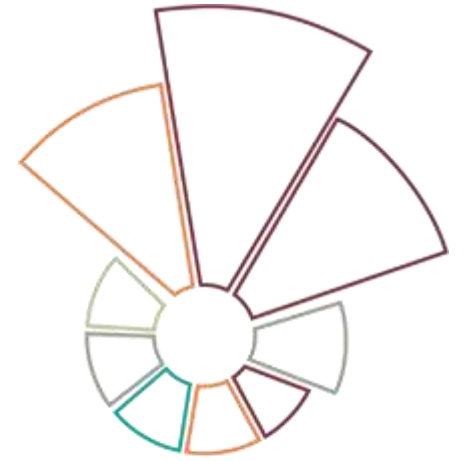


- Analysis of collected data was processed using SPSS & Microsoft Excel packages. Information derived & other data collated are useful for mitigation measures against accidents within the study area & beyond.



## Results & Analysis

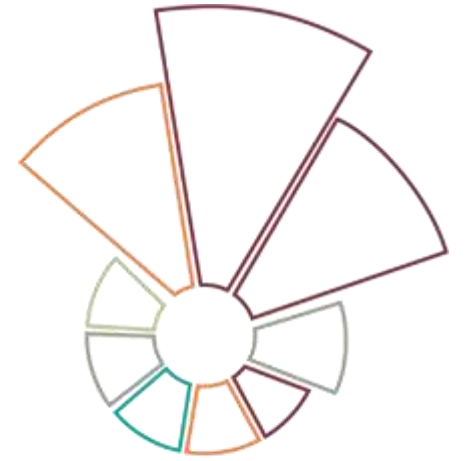
- An accident may involve :
  - Injury to Employees
  - Damage to Property Only
  - It could lead to both injury to personnel & damage to equipment, property & Environment.



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## Results & Analysis Contd

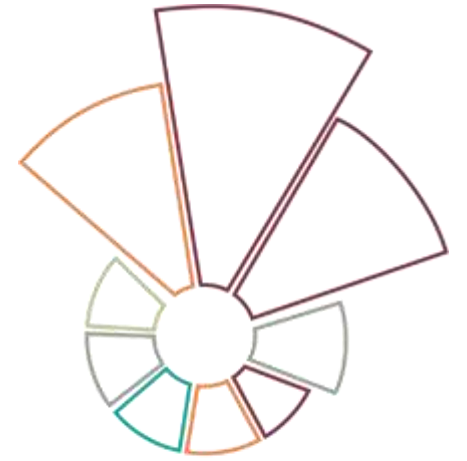
- There could be no injury to personnel & no damage to equipment, property or environment.
- In other words, we refer to this type of accident as a Nearmiss. A Nearmiss is an intended accident but with unrealized consequences. A Nearmiss today could lead to serious accident tomorrow.



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## Effects of Accident on Employee:

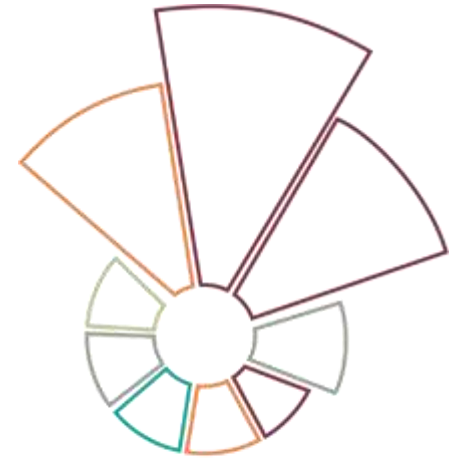
- Suffers physical & psychological pains
- Loss of earning Power
- Loss of Leisure activities - sports
- Possibility of death on Employee
- Drastic effects on family as a result of loss of bread winner.



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## Effects on Company

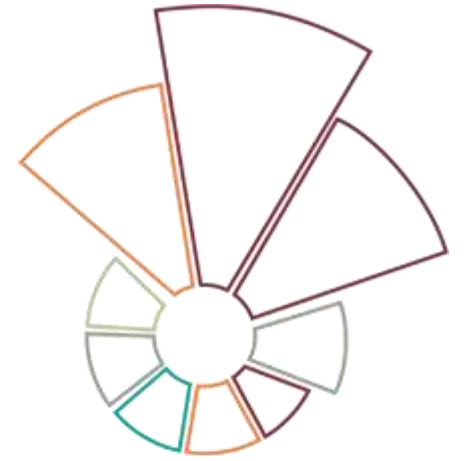
- Loss of reputation
- Money Loss
- Time Loss



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## Effects on the Nation

- Govt Loss of revenue derivable from company.
- It affects developmental aspect of the country ( Amenities, infrastructural facilities)
- Civil Unrest – as a result of no amenities, infrastructures ( Arab nations uprising).

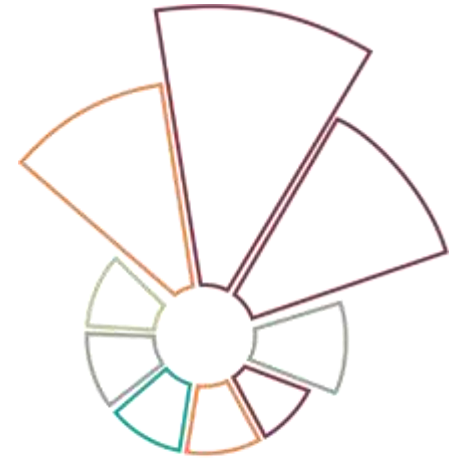


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## Recommendations/Control Measures:

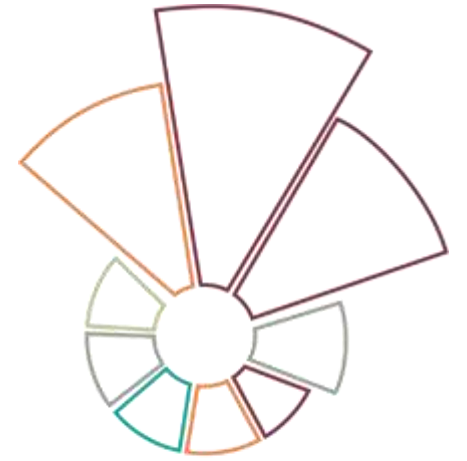
- Importance of carrying out R/A
- Carrying out site specific JSA/JHA
- Thorough application of 5X5 Program (Exxonmobi-1999).
- Companies to employ qualified & competent workers.
- Training of employees (Local & Abroad).



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## Recommendations contd

- Thorough application of ABBI principle
- Conducting of quality HSE Meetings on regular basis.
- Thorough application of Stop Work Authority (SWA- NMA-SBU-2015).
- Qualitative Safety orientations, especially for new employees.



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## Conclusion

- The Tony Akpunwa Story that led to the accident that defaced him completely & Lessons Learnt from such ugly Incident.
- “ The best time to prevent accident is before it happens”
- Prof Emeritus –Late Chinua Achebe book on Things Fall Apart.



