Accident Investigation
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Preparation and planning is critical to success.

Mental Movie Concept

Benner Laws of Accident Investigation
The first law of accident investigation states that everyone and everything is always someplace doing something during the accident.

The third law of accident investigation states that the witness has it, you need it and the witness does not have to give it to you.

Number 1 Rule for:
Incident Investigations, Audits and Inspections
See what you see.
• Not what you want to see.
• Not what you saw yesterday.
• Not what you thought you would see.
• Not what someone told you to see.
See what you see.

Traditional Incident Investigation

Best Question:
And then what happened?

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Sequentially Timed Events Plotting

<table>
<thead>
<tr>
<th>Time</th>
<th>8:45 AM</th>
<th>8:45 AM</th>
<th>8:45 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>People</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Victim</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Leader</td>
<td></td>
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<tr>
<td></td>
<td>Engineer</td>
<td></td>
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</tr>
</tbody>
</table>

Cause and Effect card exercise

Traditional Incident Reporting

Past → Present (incident)

Comparison
Traditional Incident Investigation
Past → Present (incident)

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An effect exists only if its causes exist at the same point in time and space.

If you get stuck
- Think “caused by”, “because”, “why”
- Think about man, machine, method and material

Advantages of a Group Developing Cause and Effect Chart
- Takes advantage and builds collective knowledge
- Input from different points of view, operators, engineers, supervisors, etc.
- Focuses the group on causes, effects and solutions
- Many more causes identified
- Supports organizational learning culture
- Increases opportunities for improvement
- Can be used for injuries, near misses, hazardous situations

Hierarchy of Controls
1) Elimination
2) Substitution
3) Engineering Controls
4) Warnings
5) Administrative Controls
6) Personal Protective Equipment

Questions and Discussion

Steel Warehouse exercise

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