NSC Business & Industry Division

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Presenters

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• Brigette Philpot
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    Sodexo North America
Using Safety Data to Drive Priorities

David Consider
What is a Risk Assessment?

“. . . a structured process that identifies how objectives may be affected, and analyzes the risk in terms of consequences and their probabilities before deciding on whether further treatment is required.”

Taken from ANSI/ASSP Z690 & ISO 31001 (Risk Assessment Techniques)
What is a Risk Assessment?

“A process that commences with hazard identification and analysis, through which the probable severity of harm or damage is established, followed by an estimate of the probability of the incident or exposure occurring, and concluding with a statement of risk.”

Taken from ANSI/ASSP Z590.3 (PtD)
Why Risk Assessments?

• Proactively identify & prioritize hazards
• Prioritize limited resources
• Employee engagement tool
• Anticipate & control risk for new tasks/operations
• Gauge impact of controls before implementation
• Measure and improve – leading indicator
Common Risk Analysis Tools

- Hazard & Operability Study (HAZOP)
- Failure Mode & Effect Analysis (FMEA)
- Fault Tree Analysis
- Event Tree Analysis
- “What-if” Analysis
- Bow-Tie Diagrams
- Risk Matrix
Risk Assessment Process

• Score Existing Tasks/Controls
  • Choose
  • ID concerns
  • ID controls
  • Define
  • Score
• Evaluate New Controls & Feasibility
• Re-Score
• Report Out
### Prioritizing Action

<table>
<thead>
<tr>
<th>FREQUENCY x LIKELIHOOD x CONSEQUENCE</th>
</tr>
</thead>
</table>
| **80 – 125** | **Very High** | **Discontinue – Stop**  
Improve control measures immediately & consider stopping work activity until risk is reduced |
| **60 – 79** | **High** | **Immediate Correction**  
Improve control measures |
| **40 – 59** | **Substantial** | **Correction Required**  
Evaluate control measures for possible improvement |
| **20 – 39** | **Possible** | **Attention Needed**  
Review control measures |
| **1 – 19** | **Slight** | **Possibly Acceptable**  
Maintain existing control measures |
<table>
<thead>
<tr>
<th>Process/Area</th>
<th>Task</th>
<th>Concern Description</th>
<th>Existing Controls (Y/N), Percentage</th>
<th>Initial Assessment</th>
<th>Risk Point</th>
<th>Post Control Assessment</th>
<th>Risk Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving</td>
<td>Unloading - Slippery load/unload/overhead lift</td>
<td>Slipping, tripping or caught between items or edges of cart</td>
<td>Administrative/PIT training</td>
<td>1 3 3 3</td>
<td>Only trained EDC done/PIT followed PIT training</td>
<td>1 3 2 6</td>
<td></td>
</tr>
<tr>
<td>Receiving</td>
<td>Ticket Check: Falsifying ticket or missing ticket</td>
<td>Business check materials if ticket not present</td>
<td>Administrative/Wheelchair</td>
<td>1 4 2 4</td>
<td>Complete Dock Safety checklist: wheel check and ticket comparison</td>
<td>1 4 2 9</td>
<td></td>
</tr>
<tr>
<td>Receiving</td>
<td>Floor under loading - Forklift facing through hole in the floor of the trailer</td>
<td>Forklift facing through hole in the floor of the trailer</td>
<td>Engineering light</td>
<td>1 4 3 4</td>
<td>Use dock light with trailer fork PIT training for comparison</td>
<td>1 4 2 9</td>
<td></td>
</tr>
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<tr>
<td>Receiving</td>
<td>Loading - Overhead lift</td>
<td>Overhead lifts without proper equipment</td>
<td>Administrative/PIT training</td>
<td>1 1 3 3</td>
<td>Loading area: use of protective or area marked out</td>
<td>1 1 2 2</td>
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Next Steps and Available Help

• Assistance applying this to your organization
  • Virtual consulting to review matrices, brainstorm new controls, etc.

• Dedicated Risk Assessment Workshop for your organization/location’s cross-functional teams
  • Virtual
  • Onsite at your location

• Visit nsc.org/assessrisk and complete form at bottom
Thank You!

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