Baldwin & Lyons, Inc. *The Pledge of Excellence*

AUGUST 25-26 CLAINS SAFETY 2014 SEMINAR

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圖 面

AUGUST 25-26 CLAIMS SAFETY 2014 SEMINAR Accident Analysis and Claim Prevention Tools



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ACCIDENT ANALYSIS AND CLAIM PREVENTION TOOLS

- In a perfect world there would be no errors and a company's operations would be under complete control at all times.
- There would be no unplanned, undesirable events.
 No accidents, no incidents, no claims.
- Unfortunately, perfect control does not exist and sometimes accidents happen.





Data

- The total reported claim costs for accident years 2011-2013 was \$316 million.
 - Total claim costs
 - Auto liability costs
 - Auto phys dam costs
 - Workers' compensation









Total claim costs: Accident years 2011-2013 Claim counts by coverage/costs by coverage









Auto liability claim costs: Accident years 2011-2013 Claim counts by loss type/costs by loss type



Average cost per claim







Auto phys dam costs: Accident years 2011-2013 Claim counts by loss type/costs by loss type



Average cost per claim



Workers' compensation costs: Accident years 2011-2013 Claim counts by loss type/cost by loss type



Average cost per claim







Summary

+ Liability average = \$34,855

- Struck pedestrian = \$41,229
- + Phys Damage average = \$5,730
 - Overturn/upset = \$ 21,641
- + Work comp average = \$22,831
 - Motor vehicle = \$45,669









INCIDENT INVESTIGATION AND ROOT CAUSE ANALYSIS

How a thorough investigation leads to the reduction in frequency and severity





Incident Investigation Objectives

- + Determine multiple root causes (unsafe practices and conditions)
- + Identify corrective actions
- Recordkeeping and trending analysis
- Prevent recurrence and maintain awareness among workers
- + Control costs





Reporting

- + Investigate all incidents (including minor/first aid)
- Initiate investigation immediately
- Investigation to be completed by a knowledgeable or trained person
- Terminal/station manager should be involved if incident occurs at the facility
- + Utilize an Accident/Injury Report to document







Incident Investigation Procedures

- + **Step 1** Manage the incident scene
- + Step 2 Gather facts
- + Step 3 Interview
- + Step 4 Determine the sequence of events
- + **Step 5** Determine root causes
- + **Step 6** Develop prevention activities
- + Step 7 Complete Injury Report







Step 1 – Manage the Incident Scene

- + Ensure care and treatment of injured person(s)
- Secure the area for the duration of the investigation whenever possible
- + Preserve the scene of the incident
- Eliminate any remaining hazards

 (e.g. keep people safely away from moving traffic, secure electrical)
- + Maintain site as it was at time of the incident







Step 2 – Gather Facts

- + Identify key people
- Observe control settings (e.g. traffic control devices, dock traffic pattern)
- Observe weather and environmental conditions
- Take pictures of location and equipment
- + Review documents (e.g. police report, Safety Data Sheets)
- Evaluate the same operation in other terminals/stations to look at possible differences







Step 3 – Interview

- + Conduct interview as soon as possible to preserve detail
- Keep the interview as private as possible
- + Let worker/witness know purpose is not to find blame
- + Put the person at ease
- + Ask for worker/witness version of the incident
- + Ask only necessary questions
- Repeat the worker/witness account when finished
- + Close the interview on a positive note







Interview Techniques

Ask open-ended questions of worker/witness

Bad questions

- In which direction were you running when you tripped on the stairs?
- How much faster than the speed limit were you going when you went through the red light?

Good questions

- What were you doing just before you fell?
- What do you think caused you to fall?
- What was your speed just before the accident?
- Did you observe what color the traffic light was?







Step 4 - Determine Sequence of Events









Step 5 - Determine Root Causes

+ Direct cause

• An event that produces injury or illness

+ Surface cause

 Specific unsafe behaviors or hazardous conditions that result in an accident

+ Root cause

 Common behaviors and conditions that ultimately result in an accident









Root Cause Analysis Categories

Environment	People	Materials	Methods	Machines
Weather	Prior observations, history	Improper packaging	Correct Procedures	Vehicle/ equipment failure
Lighting	Job function steps	Cargo placement and securement	Training	Adequate maintenance, inspection, records
Walking surface, housekeeping	Tenure	Inadequate labeling	Enforcement	Proper equipment / tools
Distractions	Procedure adherence	Damaged/defective	Lack of oversight	Lack of needed equipment/tools
General public/animals	Hiring and qualifications	Pallets	Trends, recurrence	Proper use







Step 6 – Develop Improvements

- + Treat the cause not the symptom
- Preventative action for each root cause
- Determine and implement corrective actions that eliminate or reduce root causes
- Engineer the hazard out or reduce the risk
- + Change work practices

- Implement behavior-based safety process:
 - Observations
 - Feedback
- Use administrative controls: enforce the rules, hold both employees and management accountable
- + Education and training
- Use appropriate Personal Protective Equipment if necessary







Step 7 – Complete Injury Prevention Report

+ Background information (who, what, where, when, how, why)

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QUESTIONS?

