

#### Information:

Please be advised this is an awareness information session, and is not representative as training under the requirements of the Canada Labour Code, Part II and Canadian Occupational Health and Safety Regulations.

## Agenda

- Accident Causation
- Hazardous Occurrences
- 5 Steps of a Hazardous Occurrence Investigation
- Hazardous Occurrence Investigation Report (LAB 1070)

## Learning objectives

- Accident Causal Model
- Investigative Process (5 Steps)
- -Step 1: Secure the Scene
- -Step 2: Notify People
- -Step 3: Collect Information
- -Step 4: Analyze Information
- -Step 5: Recommend and Report

### **Accident Causation**

What is Accident Causation:

The factors that are the primary reasons behind an accident. For occupational health and safety professionals, determining causation factors in any workplace injury or accident is key. Understanding what caused an unsafe situation to occur is important in implementing measures to help **prevent a reoccurrence**.

"Accident causation factors can be described as the factors once identified and removed can eliminate hazards or accidents."

### **Accident Causation**

Multiple factors can cause an accident, including mechanical factors, human factors, and environmental factors.

- Mechanical factors can include faulty equipment, or using equipment other than the way in which it is intended
- Human factors can include loss of sleep, inattention or a lack of knowledge about safety measures, lack of training, or complacency
- Environmental factors can include excessive heat/cold, lowlight conditions and slippery floors

#### **Hazardous Occurrence**

#### **Definition:**

Occurrence or task that has caused or could cause damage or harm the health and safety of workers.

#### **Examples:**

- A newly hired worker falls from his truck while attempting to install a tarp;
- Loss of hearing in a long-time employee possibly due to exposure to noise;
- Occurrence that could have caused an accident or an injury to an employee.

#### Hazardous occurrence

#### Hazards at work? What hazards?

— Physical : Fall, noise, heat

Biological : Bacteria, viruses

Chemical : Gas leak or product spill

Security : Hold-up, terrorism, fire, explosion

— Ergonomic : Repetitive movements, seated work

Psychosocial : Bullying, burnout

### **Hazardous Occurrence Investigation**

#### 1st role:

Identify the causes of the event in order to make the necessary corrections.

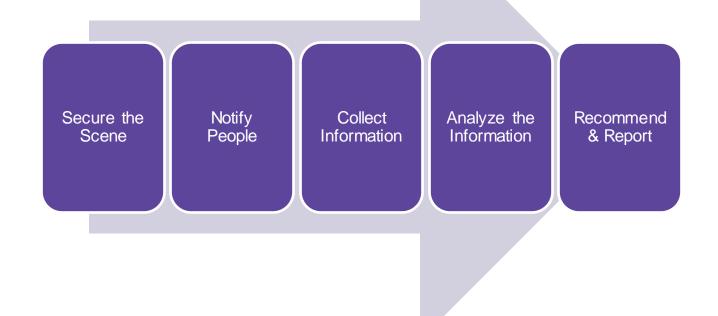
— E.g. Why did the employee fall from the truck?

#### 2nd role:

Important tool in the prevention, monitoring and management of occupational health and safety, with:

- Hazard Prevention Program;
- Preventive Maintenance Program;
- Employee Training Plan, etc.

# Five Basic Steps in an Hazardous Occurrence Accident Investigation



Step 1:

Secure the Scene

- Assess the Scene for Safety
- Take immediate action to eliminate all risks to others
- Take immediate action to care for the injured worker(s)
- Secure the Scene (Caution Tape, Barriers)
- Manage the Scene
- Initiate the care of witnesses and survivors

## Step 2:

#### **Notify People**

- Determine WHO needs to be notified
- Notify key players in the company
- Notify next of kin / family
- Assign/notify investigation team
- ESDC Labour Program Follow Section 15.5 and 15.8 of the COHSR with Reporting Requirements and notification to the Head of Compliance and Enforcement
- Workplace Committee Members, Union Representative
- Police (Violent situation or criminal)

# OHS responsibility sharing: Hazardous occurrence



# COHSR -15.4 Hazardous occurrence investigation, employer must name...

A **qualified** person conducts the investigation into the hazardous occurrence:

- Must have the knowledge,
- training and
- experience for completing the work as he/she sees fit.

\*Available training:

https://www.ccohs.ca/

Canadian Centre for Occupational Health and Safety

## **QUESTION**

At what level does the health and safety representative or the work place health and safety committee (WPHSC) participate in the investigation?

- A) An employee member must sign the LAB1070
- B) Management right, employer investigates the accidents
- **C)** Active participation from the beginning to the end of the investigation

### **ANSWER**

A) An employee member must sign the LAB1070

C) Active participation from the beginning to the end of the investigation

# Hazardous occurrence Reporting to the Labour Program (24 hours)

#### **ATTENTION:**

#### COSHR, Article 15.5

Report to the Labour Program as soon as possible (within 24 hours)

- Death of an employee;
- Disabling injury to two or more employees;
- Partial or total loss of a limb or its use;
- Permanent impairment of bodily function (vision, hearing);
- Explosion;
- Damage to a boiler or pressure vessel that results in fire or the rupture of the boiler or pressure vessel;
- Any damage to or free fall of an elevating device.

When in doubt report!

1-800-641-4049 (24/7):

# Hazardous Occurrence Reporting to the Labour Program (14 days)

COSHR, Article 15.8 (1)

The Hazardous Occurrence Investigation Report must be submitted to the Labour Program within 14 days, under the following circumstances:

- ✓ Disabling injury to an employee (with loss of time);
- Loss of consciousness due to exposure to any oxygen-deficient or toxic atmosphere or an electric shock;
- ✓ Need for rescue, revival or other similar emergency procedures (police, ambulance);
- ✓ Fire or explosion.

When in doubt report!

1-800-641-4049

## **QUESTION**

What do you do if one of your employees dies from natural causes (e.g. stroke) in your workplace?

- A) Natural cause: I do not have to inform the Labour Program
- **B)** I contact the Labour Program as soon as possible (within 24 hours)
- C) I submit the report to the Labour Program within 14 days

### **ANSWER**

B

I contact the Labour Program as soon as possible (within 24 hours)

## Step 3:

#### Collect Information

#### Scene:

- Photographs with notes / log
- Notes on environmental conditions (lighting, noise, housekeeping, weather)
- Map or diagram of the scene
- Equipment defects or lock-out / tag-out hardware and/or permits
- Contact information of persons at scene / witnesses

## Step 3:

# Collect Information

#### **Reports / Documents:**

- Training Records
- Job Descriptions
- Hazard Prevention Program / Job Hazard Analysis
- Maintenance records
- Equipment Manuals
- Contracts
- SDS
- Previous accidents / Near Miss reports
- Police Reports (if obtainable)
- Coroner's Reports / Toxicology (if applicable)

## Step 3:

# Collect Information

#### Interviews:

- Select a quiet and neutral place
- Ensure person is at ease and not in distress
- For direct witness, ask them to write in their words what they observed
- Use open ended questions (tell me, explain to me, etc.)
- Demonstrate attention to the person
- Probe for missing information by asking questions
- Summarize information once received
- Thank the person for their interview

### **Information Gathering**

• Who is injured? (Names/Employees / Contractors / Who Persons) What does the accident involve? (Equipment / What Materials / Machines) • When did the accident occur? (Daylight, Night When time, Beginning or end of shift) • Where did the accident occur? (Workplace, Off site, Where Building, Yard, Public Road) Why did the accident occur? (Defective Tool, Why Inadequate Training, PPE, Mechanical Error, Human Error) • How did this accident occur?(Accident Causal How Model)

# Step 4:

# Analyze the Information

Review all information gathered

- -Notes
- –Photographs
- -Interviews
- -Documents

**Immediate Causes**: Apparent / obvious causes of the injury (e.g. Operating defective machinery or at improper speed, or without guarding)

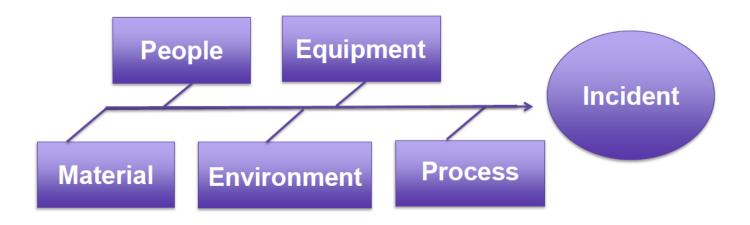
**Underlying or Root Causes**: (e.g. Lack of training, knowledge, skills, inadequate supervision, inadequate PPE)

## Step 4:

Analyze the Information

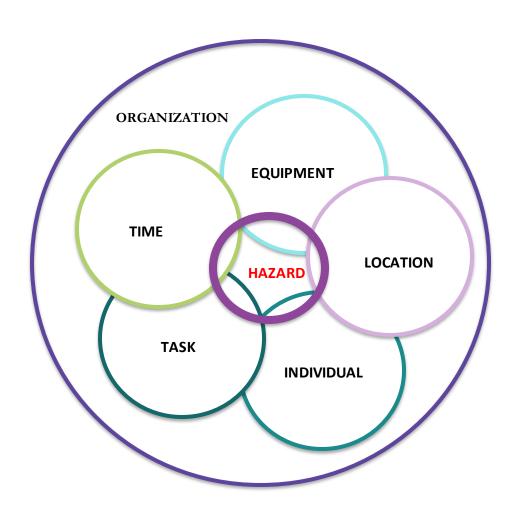
#### •Example no. 1

#### Method of 5M or of Ishikawa



https://melba.io/fr/blog/methode-des-5-m

## **Causes: Work components**



## Step 5:

Recommend and Report

#### Recommendations

- Investigation team makes recommendations based on key contributing factors and underlying root causes
- Should be specific and include timelines

#### **Corrective Actions**

- -Department Manager must follow up on corrective actions to ensure implementation
- -Health and Safety Committee follows up

# Hazardous occurrence investigation Priority Order (122.2 – COSHR 19.5 (1))

What must be done to address the situation and prevent it? Prioritize the measures to be taken:



Eliminate hazards at the source



Reduce hazards to a minimum



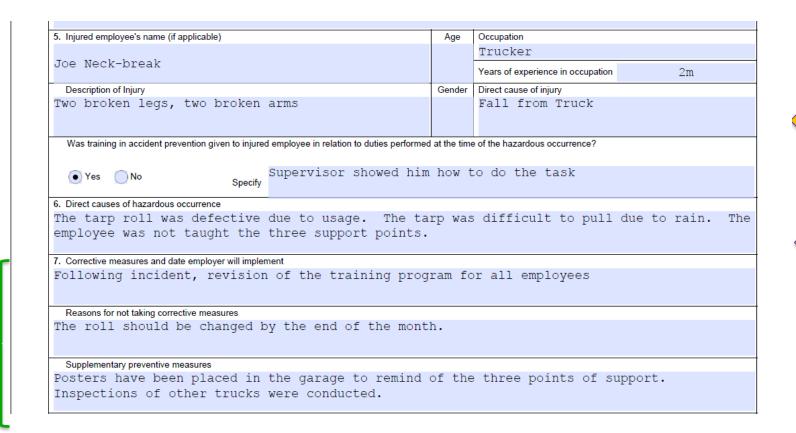
Supply personal protective equipment and implement administrative measures to manage the hazard

# **Example of a Hazardous Occurrence Investigation Report (LAB 1070)**

Employment and Social Development Canada	Emploi et Développement social	Canada			
SCHEDULE 1	1. TYPE OF OCCU	JRRENCE	2. Depart	tment file no.	
(section 15.8)	Explosion	Explosion Loss of Consciousness			
	Explosion	Loss of Consciousness	Region	nal or District Office	
HAZARDOUS OCCURRENCE INVESTIGATION REPORT	✓ Disabling I	njury Emergency Procedure			
	Other		Emplo	oyer ID No.	
		Specify			
3. Employer's name and mailing address	<b>I</b>		Postal Co	de	
Transport Poutine				H1H 1H1	
30 Sauce Road			Telephon	e Number	
Formageville, QC				514-999-999	9
Site of hazardous occurrence		Date and time of hazardous occurrence		2016-09-01	1045
Garage de Transport Poutine	2			2010-09-01	1045
30 Sauce Road		Weather (if applicable)			
Formageville, QC		Rain			
Witnesses		Supervisor's name			
		Jean Supervisor			
4. Description of what happened					
Wanting to put the tarp on unrolling properly. When h					't



# Example of a Hazardous Occurrence Investigation Report (LAB 1070) – cont'd





# Example of a Hazardous Occurrence Investigation Report (LAB 1070)-cont'd

Surname	Given Name	Telephone Number
Supervisor	Jean	(514) 999-9999
Title	E-Mail	<u> </u>
Director (OHS)		
Attestation:  I, hereby certify on behalf of my employer that the to the best of my knowledge and belief.  Work place committee's or health and safety representations.		vestigation Report (HOIR) is true and accurate in every respect
/ork place committee member's or health and safety	y representative's information	
ork place committee member's or health and safety	y representative's information  Given Name	Telephone Number
Surname		Telephone Number (514) 999–9999
Surname	Given Name	
Knowing	Given Name Joe	

10. COPY 1 to the Minister of Labour, COPY 2 to the Work place Committee or Health and Safety Representative COPY 3 to the Employer

### **Recap of Steps: Investigation Process**

- Step 1: Secure Location
- Step 2: Advise people
- Step 3: Collect information
- Step 4: Analyse information
- Step 5: Recommendations and reports

### Requirement to Report Near Misses



- •A near miss is a condition or unplanned event that didn't result in an injury, illness, or damage to equipment or property, but had the **potential or likelihood** to do so.
- •Focusing on near misses helps reduce the likelihood of having major incidents or minimize the damage they might cause if they do occur.

It's all about **Prevention** 

# Are Employees Required to Report Near Misses?

Yes...

CLC Part II, section 126.(1)(g):

Report to the employer any thing or circumstance in a work place that is **likely** to be hazardous to the health or safety of the employee, or that of the other employees or other persons granted access to the work place by the employer;

COHSR 15.3: (Reports by Employees)

Where an employee becomes aware of an accident or other occurrence arising in the course of or in connection with the employee's work that has caused or is <u>likely</u> to cause injury to that employee or to any other person, the employee shall, without delay, report the accident or other occurrence to his employer, orally or in writing.

Employers must ensure Employees are informed in their duty to report, and have clear and simple instructions on how to report to the Employer.

#### Connect with us...

The Labour Program is working to determine the most effective ways to connect with stakeholders and partners.

- Social media (Twitter, LinkedIn, Facebook)
- Publish prosecutions online
- Linking information on the Canada.ca website (Health and Safety)

1-800-641-4049 – Labour Toll Free Line (For information or urgency 24/7)

Follow us on Twitter @ESDC\_GC

www.Labour.gc.ca