



**Head Office**

825-J Laval Crescent  
Kamloops, BC  
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P: 778-471-6407

**Lower Mainland Office**

9734 - 201 Street  
Langley, BC  
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The Liquor Distribution Board requested a hazard and risk assessment of their Langley Signature Store’s Cold Zone to identify the hazards associated with loading, stocking, and organizing products and within the Cold Zone.


**The assessment was performed to:**

- Identify risk factors that could lead to injuries and loss of product.
- Provide recommendations for improvements.

The assessment was conducted by OH&S Safety Consulting and Training Solutions Ltd. on July 11, 2019 at the Liquor Distributions Boards Langley Signature Store located at 6435 201 St, Langley BC V2Y 0G8

**The findings of the report were derived using:**

- Observational tour with Health and Safety Worker Representative
- Informal interviews with workers
- And document review

SAMPLE	Hazard	Possible Risk Control Measures
	<p>Stacking products too high resulting in overreaching</p> <p>Stacking above shoulder height can cause an unstable load result in falling items or entrapment of worker under a fallen load</p>	<p>Follow the established work procedures for stocking <i>(Products are not to be stacked over shoulder height and load is secure and stable)</i></p> <p>Train workers in body mechanics and lifting techniques</p> <p>Reduce amount of product being stored in the Cold Zone</p> <p>Supervise workers to ensure they follow establish procedures</p> <p>The use of a step ladder, if reaching over shoulder height.</p>



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SAMPLE	Hazard	Possible Risk Control Measures
	<p>Unbalanced stacking can result in tip overs</p> <p>Tip over can lead to employee getting struck by, loss of product, and/or create a slipping and tripping hazard</p>	<p>Always ensure that stacking is secure.</p> <p>Stack similar size products,</p> <p>Train workers on the established stacking rules</p> <p>Report to supervisor unstable loads</p>
	<p>Stacking products behind various product results in inaccessibility</p> <p>Employees climbing on products to reach what they need</p>	<p>Organize the cooler to ensure employees have access to all products without overreaching</p> <p>Could result in falling, Awkward body position and/or collapse of product with worker in the "Line of Fire"</p> <p>Train employees on procedures for stacking and grabbing products</p>



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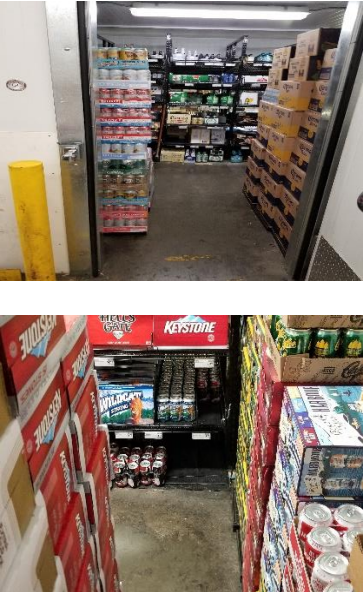

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SAMPLE	Hazard	Possible Risk Control Measures
	<p>The massive amount of product that is stocked in the cooler limits the walking space. In some areas it is as little as 2 feet.</p> <p>Obstructed path of travel</p>	<p>Limited walkways make moving in and around cold zone difficult, potentially bumping or tripping over items</p> <p>Due to the restricted area between product, dollies are unable to place product directly where it needs to go. In order to make turns the operator must manually walk the pallet (side to side) to get it in position to be delivered to appropriate location. Manually pushing and pulling up to 200 lbs</p>
	<p>Working in temperatures between 0°-5° Celsius for prolonged periods of time</p> <p>Uncomfortably cold working conditions can lead to lower work efficiency and higher accident rates. Cold impairs the performance of complex mental tasks. Manual tasks are also impaired because the sensitivity and dexterity of fingers are reduced in the cold</p> <p>Inadequate gloves are provided for dealing with the cold</p>	<p>Lack of job rotation or alternate tasks outside the cooler require some people may spend up to 6 hours in the cooler per day only leaving for breaks</p> <p>In refrigerated rooms, the air speed should not exceed 1 meter per second</p> <p>Train employees on signs and symptoms of Cold Stress</p> <p>Micro breaks outside of Cold Zone</p> <p>Protective clothing is needed for work at or below 4°C. Clothing should be selected to suit the temperature, the level and duration of activity, and job design</p>



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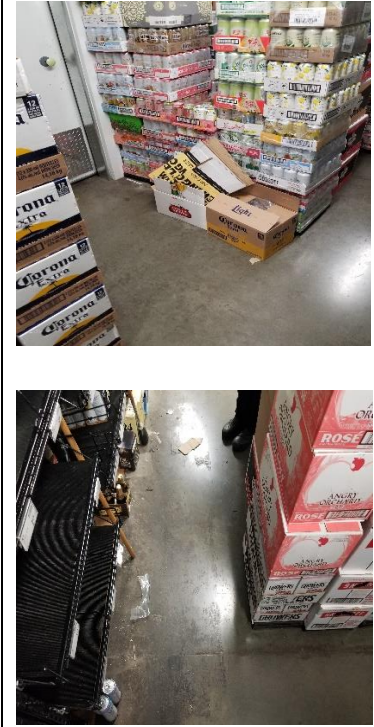
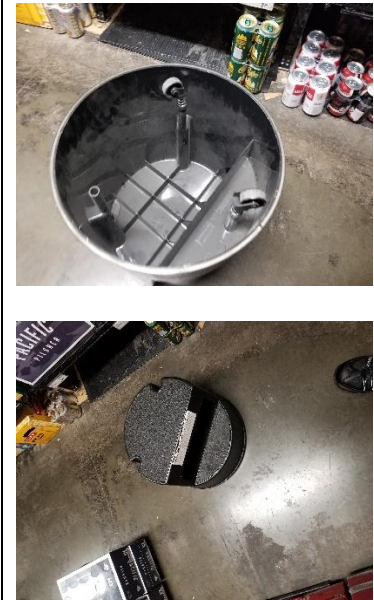
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SAMPLE	Hazard	Possible Risk Control Measures
	<p>Empty cardboard and plastic laying on ground causing congested work area</p>	<p>Any garbage or empty boxes should be removed to reduce congestion.</p> <p>Lack of house keeping can lead to hidden hazards, slipping and tripping hazards</p> <p>Supervisors to ensure housekeeping is maintained</p> <p>Reminder poster to “clean as you go”</p>
	<p>Missing and damaged step stool</p> <p>Improper stool for the job</p> <p>Size of the step stool cannot support both feet planted.</p>	<p>Stool was found to be missing a wheel</p> <p>Develop a process for insuring equipment is inspected prior to use.</p> <p>Ensure the stool or ladder that is used is correct for the task</p>



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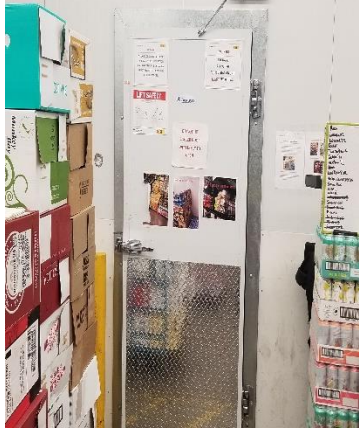
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SAMPLE	Hazard	Possible Risk Control Measures
	<p>Workers unaware of when employees are opening the door from the inside</p>	<p>When working inside cooler prior to opening the door no policy is in place to inform others, the door will be swinging open. This is a concern as the doorway area is a high traffic area. Without warning the door can open and knock another employee over or into a stack of product.</p>

### Recommendations

1. Develop, implement, and monitor Safe Work Procedures for working in the Cold Zone
2. Limit stacking height of product to eliminate overhead reaching.
3. Ensure training on proper lifting techniques and supervise they are being implemented
4. Provide PPE and remind staff to dress appropriately in the cooler for prolonged periods
5. Develop a stretching routine for workers to minimize MSI
6. Encourage workers to report hazards and unsafe conditions
7. Health and Safety Committee should engage with workers to determine areas of concern
8. Ensure good housekeeping practices are maintained
9. Develop a system for inspecting tools and equipment prior to use
10. Develop a warning system for when cooler door will be opening

The aim of the assessment process was to identify and evaluate potential hazards present in the Cold Zone through the awareness of such hazards the LDB can develop controls to remove hazards or minimize the level of its risk by adding control measures.



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### SIGN OFFS

NAME & DESIGNATIONS: Marc Cann OHS Consultant  
COMPANY: OH&S Safety Consulting and Training Solutions LTD.  
SIGNATURE:   
DATE: July 11, 2019

### Disclaimer:

This Hazard Assessment only outlines the potential hazards identified for the Cold Zone space as documented at the time of assessment, based on known and planned work activities.