



**WINTER WORKS
COAA BEST PRACTICES
2014**

Introduction

- ⦿ Winter conditions in Alberta can start as early as October and continue through to April. Weather conditions during this time cause adverse hazards to people, equipment, materials and the environment.

Purpose

- ① The purpose of this Best Practice is to provide a framework for organizations to reference when developing a winter preparedness program specific to individual requirements.

Content/Scope

The proposed Winter Works Best Practice will;

- ① Provide a comprehensive guide on winter work awareness, preparedness and implementations
- ① To propose a schedule of Pre-Season, In-Season, and Post-Season activities and continuous improvement assessments
- ① Raise awareness and provide mitigation strategies for hazards associated with working in winter conditions
- ① Provide a tool kit of schedules, forms, checklist, etc.

Information & Categories

- ① The next few slides will outline each task and identify the types of supporting documentation that will be used in the best practice tool kit.
- ① Information will be provided for Pre-Season, In-Season, and Post-Season.

Pre-Season

- ⦿ Winter Safety Kick Off Meeting
- ⦿ Winter PPE Selection
- ⦿ Winter Safety Readiness Review
- ⦿ Winter Safety Campaign Development
- ⦿ Site Hazard Assessment
- ⦿ Site Preparation

Winter Safety Kick Off

- ⦿ Winter Safety Kick Off Meetings should be held Pre Season to ensure sites are prepared for the upcoming winter months
- ⦿ Discussions around; Lighting, Snow Removal / Sanding, Walkways, Material Storage, Hazard Assessments, Vehicle / Equipment Winterization, etc.

Winter PPE Selection






Determine the needs for PPE

- ⦿ Base Layers
- ⦿ Proper Foot Wear / Traction Aids
- ⦿ Fire Retardant Considerations

- ⦿ Explanations of PPE types and uses

Winter PPE Selection – Catalogues, Posters, Supplier Info..

Use traction control devices where snow and ice controls have not been implemented.

AGGRESSIVETRACTION: Primarily working outdoors on packed snow and ice surfaces			
ICE GRIPS:		ALTRAGRIPS-LITE HIGH PROFILE:	
	Extreme aggressive studs. Not recommended for indoor or driving.		
	S: 2017309	XL: 2017313	
	M: 2017311	XXL: 2017314	
	L: 2017312		
GRIP-X:		ICERS:	
	General purpose for outdoor use. Durable, pins will not fall out. Uni-foot, no right or left side.		
	XS: 2017303	L: 2017306	
	S: 2017304	XL: 2017307	
	M: 2017305	XXL: 2017308	
STABILICERS:		GRIP ONS:	
	Minimal slip on metal but loose fit may snag on equipment or fall off in very cold temperatures.		
DUE NORTH:		MAXI GRIP SCREW IN STUDS:	

Winter Safety Readiness Review

- ⦿ Winter Safety Campaign Development
- ⦿ Pre Season Site Hazard Assessments
- ⦿ Collaboration with Contractors
- ⦿ Meeting Discussion Topics

Winter Safety Readiness – Focus Inspections, Checklists..

Item	Comment / Status	Due Date	Done
Materials			
Appropriate roadway and walkway traction materials specified and ordered			
Traction material stockpiling, distribution and reorder plan developed			
Roadway and walkway delineation materials (stanchions, pylons, barrier tape, etc.) specified and ordered			
Environment			
Spill prevention and spill response provisions in place for vehicle or machinery spills (drip trays, sorbents, etc)			
Planning for site snow-clearing and removal completed			
Winter snow storage locations identified and reserved for that use			
Develop and implement a project/site policy on engine idling			
Where appropriate, establish procedure for working on ice cover or frozen muskeg (personal hazard / enviro-damage)			
Systems			
Work planning to reduce worker exposure to winter conditions conducted			

Winter Safety Campaign Development

- ⦿ PPE Catalogues
- ⦿ Posters
- ⦿ Power Point Presentations
- ⦿ Safety Bulletins
- ⦿ Tool Box Talks



& Think

**'Tis the
Season**

Ice, snow, sleet and slush on the roadway greatly increase the risk of being involved in a motor vehicle accident. Take it slow on the roads this winter!

190,100

car accidents per year
on icy pavement

168,300

car accidents per year
on snow/slushy pavement

10%

of all weather-related
crash fatalities occur
on icy pavement



9%

of all weather-related
crash fatalities occur
on snow/slushy
pavement



Don't Take Chances!

Site Hazard Assessments

- ⦿ Winter Hazard Assessments
- ⦿ Winter Focused Audits
- ⦿ Site Inspections

Site Hazard Assessment – Sample Checklists, Text Documents

Site Winterization Assessment - Slips, Trips & Falls

DATE / TIME: _____

OBSERVER NAME: _____

			C	S	U	NA
Work Areas	1	Is work area cleared of icy surfaces or sanded?				
	2	Is work area clear of tripping hazards?				
	3	Are wet floor signs used in building appropriately / when needed?				
	4	Is the work area adequately illuminated?				
Access / Egress	5	Are there any wooden pallets to access work area?				
	6	Are electrical cords run out of general walkway or overhead?				
	7	Are uneven levels in walking path identified by high visible paint markings?				
	8	Are wooden steps or ladder rungs equipped with non slip paint or grips?				
	9	Are steps to mobile equipment or vehicles equipped with grip tape?				
	10	Are building entrances equipped with carpet mats at doorway for moisture?				
	11	Are footwear cleaners / brushes provided prior to building entrances?				
	12	Are the parking lot and lunch trailers free of slippery surface?				
	13	Are walking paths adequately illuminated and free of slip hazards?				
	14	Do steps with three or more risers have handrails?				
rs	15	Are workers / employees using three points contact on ladders / stairs?				

Site Preparation

- ⦿ Snow Removal / Sanding Plan
- ⦿ Lighting
- ⦿ Equipment and Maintenance

In-Season

- ⦿ Winter Safety Awareness Campaign Roll – Out
- ⦿ Winter Surveillance Assessments
- ⦿ Winter Program Effectiveness Reviews
- ⦿ Managing of Cold Weather Work

Winter Safety Awareness Campaign Roll Out

- ⦿ Presentations
- ⦿ Safety Alerts
- ⦿ Incentive Program

Winter Surveillance Assessments

- ⦿ Ice or Focus Audits
- ⦿ Inspection Trending
- ⦿ Winter Walk Throughs
- ⦿ Hazard IDs

Managing of Cold Weather Work

- ◎ Injury Prevention
- ◎ Winter Walking – Traction Aids
- ◎ Frost Bite/Nip Awareness



Slips and Falls on Ice

Over 21,000 Ontarians visit an emergency room because of slips and falls on ice and snow each winter.

According to Canada Post's statistics for 2011, 31% of all worker injuries across Canada were caused by slips, trips and falls on delivery routes.

Ice is actually most slippery when the temperature is 1° or 2° C because a film of water can form on the ice surface.

TIP: Make sure to clear all walkways, paths, parking lots and other outdoor areas of snow and ice to protect both workers and visitors.

At SafetySmart.com, you can get a [safety talk](http://SafetySmart.com) on avoiding slips and falls in the winter.

Cold Stress

WINTER SAFETY

In an average year, more Canadians die from exposure to winter cold than from lightning, wind storms and tornadoes combined. *Source: Environment Canada.*

TIP: Make sure you comply with the **cold stress requirements in the OHS law** in your jurisdiction, including implementing a **cold stress exposure plan**.



Wind Chill Hazards and What To Do

WIND CHILL	RISK OF FROSTBITE	HEALTH CONCERNS	WHAT TO DO
0 to -9	Low	Slight increase in discomfort	Dress warmly, stay dry.
-10 to -27	Low	Uncomfortable Risk of hypothermia if outside for long periods without adequate protection.	Dress in layers of warm clothing, with an outer layer that's wind-resistant. Wear a hat, mittens or insulated gloves, a scarf and insulated, waterproof footwear. Stay dry. Keep active.
-28 to -39	Risk: exposed skin can freeze in 10 to 30 minutes	Risk of frostnip or frostbite. Check face and extremities for numbness or whiteness. Risk of hypothermia if outside for long periods without adequate clothing or shelter from wind and cold.	Dress in layers of warm clothing, with an outer layer that's wind-resistant. Cover exposed skin. Wear a hat, mittens or insulated gloves, a scarf, neck tube or face mask and insulated, waterproof footwear. Stay dry. Keep active.
-40 to -47	High risk: exposed skin can freeze in 5 to 10 minutes*	High risk of frostbite: Check face and extremities for numbness or whiteness. Risk of hypothermia if outside for long periods without adequate clothing or shelter from wind and cold.	Dress in layers of warm clothing, with an outer layer that's wind-resistant. Cover all exposed skin. Wear a hat, mittens or insulated gloves, a scarf, neck tube or face mask and insulated, waterproof footwear. Stay dry. Keep active.
-48 to -54	Very high risk: exposed skin can freeze in 2 to 5 minutes*	Very high risk of frostbite: Check face and extremities frequently for numbness or whiteness. Serious risk of hypothermia if outside for long periods without adequate clothing or shelter from wind and cold.	Be careful. Dress very warmly in layers of clothing, with an outer layer that's wind-resistant. Cover all exposed skin. Wear a hat, mittens or insulated gloves, a scarf, neck tube or face mask and insulated, waterproof footwear. Be ready to cut short or cancel outdoor activities. Stay dry. Keep active.
-55 and colder	Extremely high risk: exposed skin can freeze in less than 2 minutes.*	DANGER! Outdoor conditions are hazardous.	Stay indoors.

*In sustained winds over 50 km/h, frostbite can occur faster than indicated. *Source: Environment Canada.*

Post Season

- ⦿ Spring Hazard Assessment
- ⦿ Winter Safety Performance Reviews
- ⦿ Post-Winter Review Meeting

Spring Hazard Assessment

- ⦿ Hazard Checklists
- ⦿ Freeze / Thaw Cycle Awareness

Winter Safety Performance Reviews

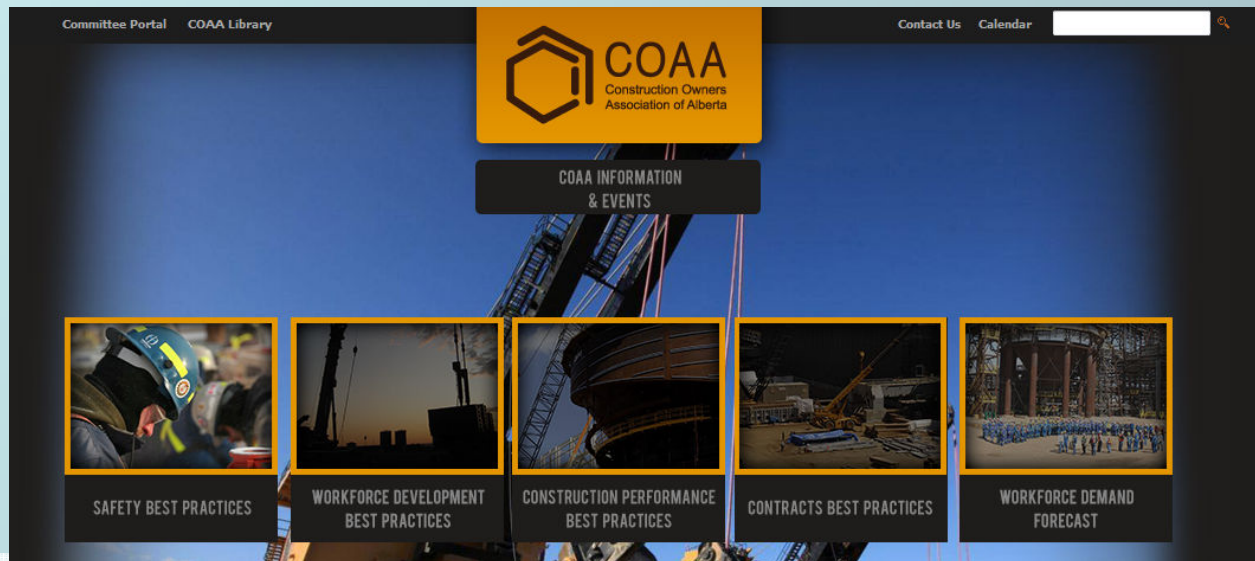
- ⦿ Incident / Injury Trending
- ⦿ Statistics
- ⦿ Audit & Inspection Trends

Post Winter Review Meeting

- ⦿ Audit findings
- ⦿ Statistics
- ⦿ Injury / Incident Trends
- ⦿ Learnings

Delivery Format

- ⦿ A web based format within the COAA Safety Best Practices Website.
- ⦿ An electronic document designed for download and print by an end user



What to expect?

- ⦿ Pre Built Campaigns
- ⦿ Resources – Text & Web Based
- ⦿ PPE Standards & Information
- ⦿ Winter Schedule - Downloadable
- ⦿ Checklists & Audit Templates – Downloadable

Information and tools to support!

Estimated Timeline

- Final product unveiled at the 2015 COAA Best Practices



Questions?