

Job Hazard Analysis

JHA Name: Snow Removal (By Hand)



Assessment Date: 12-18-13

Revision Date: 04-05-17

Building or Location: North Mankato & Faribault Campuses

Department or Program: Maintenance & Custodian

Description of Individual Tasks or Assignments: Snow Removal (e.g., shoveling, spreading grit or traction materials)

Tools, Equipment, or Machinery Used when Performing Task: Shovels, Scrappers, two-wheel carts, Buckets, Grit Materials (see SDS for specific information)

Hazard Type(s) Associated with Task or Assignment:		Check for Exposure:	Specific Hazard Exposure:	Check if Exposure Recommends or Requires a Style of PPE?
1	Impact <u>Example:</u> Person(s) can strike an object, or be struck by a moving or flying/falling object (e.g., fragments, chips, particles, sand, dirt/debris).	X	Potential exposure to impact hazards by working on sidewalks near areas occupied by moving vehicles and other snow removal equipment (e.g., plows, gator, skid-loaders, etc...)	X
2	Penetration or Cut <u>Example:</u> Person(s) can strike an object, be struck by an object, or fall upon an object or tool that would cut or otherwise break the skin.			
3	Crush or Pinch <u>Example:</u> An object(s) or equipment/machine may crush or pinch a body or body part			
4	Chemical or Harmful Dust <u>Example:</u> Exposure to chemicals (i.e., hazardous substances and harmful physical agents), infectious agents from spills, splashing, physical contact, and/ or exposure to dusts, vapors, fumes, or gases that could cause illness, irritation, burns, asphyxiation, breathing/vision difficulty, sensitization, infection, or other toxic health effects (i.e., acute or chronic). Note: "May also have or create ignition potential."	X	Potential exposure to chemical materials (e.g., discomfort/dryness to hands)	X
5	Heat <u>Example:</u> Exposure to radiant heat sources, sparks, and splashes or spills of hot material			
6	Light (optical) Radiation <u>Example:</u> Exposure to strong light sources, glare, or intense light exposure which is a byproduct or a process. Note: "This category may also include hazards presented from lack of light (e.g., working in dark spaces/areas)."	X	Potential exposure to bright or intense light/glare from reflected snow (e.g., eye injuries, eyestrain/fatigue); in addition, snow removal may work in dark or low light (e.g., nights, early morning)	X
7	Electrical Contact <u>Example:</u> Exposure, contact, or proximity to live or potentially live electrical objects.			
8	Ergonomic/ Human Factors <u>Example:</u> Working in cramped spaces, repetitive movements, awkward postures, vibration, heavy lifting, etc... Note: "This category may also include unique hazards presented from tasks that require demanding or challenging degrees of mental and/or physical effort to be exerted by an individual. See <i>Physical Effort Definition/Examples</i> category for further explanation of physical effort."	X	Potential exposure to repetitive movements, lifting light to moderately heavy loads, and bending when shoveling (e.g., Muscular Skeletal Disorders)	X
9	Environmental <u>Example:</u> Exposure to noisy environments, hot or cold work environments, poor weather conditions, working at a height, and any other conditions in the workplace that could cause danger, discomfort, and/or negative health effects.	X	Potential exposure to cold/freezing temperatures and poor weather conditions (snowing, sleeting, strong winds, etc...), working on slippery services (icy sidewalks, entrances, etc...)	X

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Personal Protective Equipment Requirements:

Eyes & Face:	Eyewear with glare/UV filtering lens (Optional/ Available when shoveling or spreading grit materials)
Head & Ears:	
Whole Body:	High Visibility Vest (Optional/Available when shoveling sidewalks and entrances), High Visibility Vest (Required when shoveling or spreading grit materials by hand in vehicle parking or traffic areas)
Feet:	Boots/Footwear should provide adequate traction for walking/working on slippery surfaces (Required)
Hands:	Chemical/Insulated Gloves (Optional/Available when spreading grit materials by hand)
Respiratory:	
Other:	Personnel should select and wear appropriate winter clothing to match weather conditions (e.g., winter gloves, hat, scarf, coat, snow pants/ coveralls, boots, etc...)

Other Control Measures or Requirements (Engineering & Administrative Controls):

#1) Impact Hazards: Snow removal equipment (e.g., plows, gator, skid-loaders, etc...) are equipped safety equipment (e.g., backup alarms, flashing/warning lights) to warn personnel working/walking in the area. **#4) Chemical or Harmful Dust Hazards:** Personnel should receive Right-to-Know training (e.g., regarding chemical & physical hazards). SDS should be provided/available for all hazardous chemicals. Scoops/cups are provided in grit storage buckets to reduce handling materials directly by hand. **#8) Ergonomic Hazards:** Shovels should be selected in anticipation of the operator's physical stature (e.g., ergonomic/human factors considerations) and expected use. Snow removal equipment (e.g., plows, gator, skid-loaders, etc...) are used to reduce the need or frequency of shoveling. Two-wheel carts are used reduce lifting and carrying buckets/bags of grit materials by hand as they are applied. **#9 Environmental Hazards:** Personnel should be trained in the basic understanding of cold/thermal stress and recognizing warning signs. Personnel should take more frequent short breaks in warm dry shelters to allow the body to warm up. Personnel should drink warm/sweet beverages (sugar water, sports-type drinks), and avoid drinks with caffeine (coffee, tea, or hot chocolate). When possible schedule/perform work during the warmest part of the day. **Miscellaneous Considerations:** Operators of tools, equipment, and machinery should read and follow all Manufactures' recommendations/requirements (e.g., inspections, servicing/maintenance, safe usage, etc...). Any tools, equipment, or machinery found damaged, defective, or otherwise unsafe should immediately be removed from service and not used until repaired or replaced.

Physical Effort Definition/Examples

1.) Physical Mobility- Movement from place to place on the job, considering distance and speed **2.) Physical Agility-** Ability to maneuver body while in place or in static position **3.) Physical Strength (Light to Moderate)-** Ability to handle routine office materials and tools **4.) Physical Strength (Moderate to Heavy)-** Ability to handle 50lbs+ objects, considering frequency **5.) Dexterity-** skill and ability in using hands, fingers, and feet **6.) Physical Balance-** ability to maintain balance and physical control **7.) Coordination-** Harmonious functioning of body parts (e.g., eye/hand, hand/foot, etc...) **8.) Endurance-** Ability to sustain a prolonged stressful effort or activity with limited opportunity to rest.

Note: "This JHA provides only the minimum PPE/safety requirements necessary to safely complete the task or assignment, and the JHA only covers the hazards or exposures that are most likely to be encountered. Nothing within this JHA bars or restricts personnel from requesting higher degrees of PPE or control to mitigate workplace hazards. In addition, South Central College personnel (e.g., employees and students) are required to complete any applicable safety or on-the-job trainings required prior to performing their positions or participating in their programs of study. Finally, South Central College personnel should consult their supervisors/instructors, the college's written safety programs/policies, and/or the Security & Safety Director whenever they have questions or concerns."

Certification: This document certifies a hazard assessment was conducted meeting the provisions specified under 29 CFR 1910.132 (d) and South Central College's related safety programs and policies.

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Date: 04-05-17