

Job Hazard Analysis

JHA Name: Mowing & Lawn Care:
Vehicle



Assessment Date: 11-29-11

Revision Date: 05-09-17

Building or Location: Faribault & North Mankato Campuses

Department or Program: Maintenance

Description of Individual Tasks or Assignments: Mowing & Lawn Care (e.g., performed by lawn mower vehicles)

Tools, Equipment, or Machinery Used when Performing Task: (2) Toro 345 model, John Deere 185, John Deere X304 (4 wheel steer)

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 flying/blowing cut grass, dirt, debris, and low hanging tree branches (e.g., injuries to eyes)	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.	X	Potential exposure to bladed/cutting equipment (e.g., injuries to feet or limbs)	X
3	Crush or Pinch <u>Example:</u> An object(s) or equipment/machine may crush or pinch a body or body part	X	Potential exposure to heavy rolling/moving equipment (e.g., injuries to feet)	X
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 nuisance dusts (e.g., respiratory irritation/discomfort), and/or potential ignition of gas powered equipment due to buildup of dried organic materials on heated equipment components.	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)."			
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 sources of whole-body vibration (vehicles)	
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 loud/prolonged noise (lawn equipment), high heat/temperatures (summer months), poor weather conditions (e.g., strong wind, rain)	X

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Personal Protective Equipment Requirements:

Eyes & Face:	Safety Glasses with Side Shields or Goggles (Required when operating equipment)
Head & Ears:	Hearing Protection Devices (Required)
Whole Body:	
Feet:	Safety Shoes (Required when operating Toro)
Hands:	
Respiratory:	N95 Particulate Masks (Optional/Available not required)
Other:	

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

#1) Impact Hazards: Operator setup of discharge chute to reduce blowing/bouncing debris. Some lawn vehicles (Toros) can reinstall doors to reduce operator exposure to blowing/flying debris. Low hanging tree branches are trimmed regularly (every 1-2 years) to reduce impacts with personnel. **#2) Penetration or Cut Hazards:** Blades are guarded to prevent operator contact. Pressure sensitive deadman switches are located in the vehicle seats of lawn equipment. **#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. Particulate masks available upon request for personnel experiencing respiratory discomfort from dusts generated. Lawn equipment should be cleaned periodically to prevent the buildup of organic materials to reduce chances of accidental ignition/fire. **#8) Ergonomic Hazards:** Whole Body vibration can be reduced in lawn vehicles by ensuring the seat and vehicle frames are designed to reduce the transfer of vibrations from the equipment to the operator. Vibrations can also be reduced/minimized by regular preventive maintenance of the equipment (keeps equipment running smoothly). Lawns and grounds are maintained to reduce ruts, which reduces the number of impacts to lawn vehicles, equipment, and the operator's body. **#9) Environmental Hazards:** Personnel should receive Hearing Conservation training (e.g., regarding noise hazards). Personnel mowing or performing lawn care should be included in the Hearing Conservation Program. Personnel should be trained in the basic understanding of heat stress and recognizing warning signs. Personnel should take more frequent short breaks on hot days in shaded or air-conditioned areas. Personnel should drink plenty of cool beverages (water), and avoid drinks with caffeine (coffee, tea, or pop). When possible schedule/perform work during the coolest part of the day. Some lawn vehicles (Toros) can reinstall doors to reduce operator exposure to strong wind or rain. **Miscellaneous Considerations:** Operators of tools, equipment, and machinery should read and follow all Manufacturers' 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. Personnel should always consult their Supervisors on the selection and use of PPE for the tasks being performed.

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: 05-09-17