[Organization logo]

[Organization name]

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STANDARD OPERATING PROCEDURE FOR OPERATING HEAVY MACHINERY

Code:	
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Created by:	
Approved by:	
Date of version:	
Signature:	

Commented [45A2]: Adapt to the existing practice in organization.

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Change history

Date	Version	Created by	Description of change
	0.1	45001Academy	Basic document outline

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1. Purpose, scope and users

The purpose of this document is to reduce the risk of a work-related injury or death by maximizing personal safety during heavy machinery operation.

This document applies to all work places and activities in the work environment of [organization name] where heavy machinery is used.

Users of this document are employees operating heavy machinery in [organization name].

2. Reference documents

- ISO 45001:2018 standard, clause 8.1
- **OH&S Manual**
- **OH&S Policy**
- **OH&S Objectives**
- Procedure for Addressing Risks and Opportunities and OH&S Hazards
- **Procedure for Operational Control**
- Procedures for Preparedness and Emergency Response
- List of Legal and Other Requirements
- Procedure for Incident Investigation

3. General safety rules for operating heavy machinery

[Job title] ensures that only trained and authorized operators are permitted to operate the designated equipment.

Personal protective equipment 3.1.

Personal protective equipment is mandatory and may include the following:

- boots or safety shoes

Personal protective equipment is controlled and used according to the SOP for Personal Protection Equipment.

3.2. Pre start inspection

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Commented [45A4]: Adapt to organization's needs.

Commented [45A5]: Adapt to organization's needs.

[Job title] performs the following activities during pre-start/walk-around inspection: Check for loose or worn parts and repair or replace immediately.	
[Job title] performs the following activities during pre-start/walk-around inspection:	
 Check for loose or worn parts and repair or replace immediately. • 	
Trace of Notice color tours. Spaller for outside rigo arts offer the region is color. Input Splingle No connector and losse for lost before applying procure to No spiters.	
transport of all the control of the	
 Check tires for cuts, bulges, irregularities, abnormal wear, and proper inflation. A fire extinguisher and first aid kit shall be mounted in the cabin. 	
3.3. Machine maintenance Commented [45A6]: Adapt to organization	ı's needs.
[Job title] ensures that the following rules are applied during machine maintenance:	
When servicing equipment, fasten a Do Not Operate tag on the steering wheel.	
Thought No. options in these and New or Septembers. These specification, recovery, and lights.	
Manager of the printer, must, and coop from graft coop, faced safe, dags, parties, and face to	
Remove or secure any loose items such as tools, chains, or lunch boxes from the cab.	
3.4. Work site	
[Job title] ensures that the following rules are applied at the work site:	
That are not for one for ordingment office, go free, and safer many.	
These sects are decreased update for confront or underground algority, holes, drop affe, and particular defeated and affect.	
3.5. Mounting, starting and testing Commented [45A7]: Adapt to organization	n's needs.
[Job title] ensures that the following rules apply when mounting machinery:	
Do not get on or off a machine that is in motion.	
Marrier - Fuert unter aft to depose fuel and aftergroup action to realize	
To not operate the registrer with set upway, or multiprised or these.	
Starting and testing is performed according to the following rules:	
Exhaust fumes are dangerous – always have a running machine in well-ventilated area.	
Parties your searchest and adjust the out prior to during	
Marin No regime only from the operator's past.	
 Check all gauges, lights, instruments, and warning devices to assure that they are functioning 	

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properly and the readings are within normal range.

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[orga	nization name]	
•	Test steering right and left.	
3.6.	Machine operation	Commented [45A8]: Adapt to organization's needs.
[Job ti	tle] ensures that the following rules apply when operating machines:	
•	Smoking is prohibited at all times.	
•	Report yourself with the control tellors specifying the reaction.	
•		
•		
•	free of speeds compatible with sporting conditions.	
•	No not case departed. Select upper floor and present reconstrumped when gaing beautiful.	
•	Know the stopping distance at any given working speed.	
•	Do not permit anyone to stand or pass under the bucket or lift arms.	
•		
•	If the resultine is study, built it out or stop regime and get help.	
•	for our make mechanism adjustments while the unit is in maken.	
:	Lower all the hydraulic equipment before shutting down or getting off the machine.	
•	During snow removal, be alert for any obstructions covered by snow.	
3.7.	Ether – Cold start precautions	Commented [45A9]: Adapt to organization's needs; delete such equipment is not used by the organization.
	cold start systems contain ether, which is explosive; [job title] ensures that employees apply llowing rules when operating such equipment:	
•	New year, For hot, garls, set gar fano, Wol n call settles on.	
•		

3.8. Refueling and parking

testing the diesel cold start system.

Commented [45A10]: Adapt to organization's needs.

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 $[\mbox{Job title}] \ \mbox{is responsible for ensuring that the following rules are applied during refueling and parking:} \\$

Point the openings of the valve, tube, or atomizer away from yourself and others while

- that of set out to regres set us, morned spagners when to
- Shount the hading one is self-sentiated.
- Do not smoke while refueling. Keep open flames and sparks away from area.

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[orgai	nization name]
•	Ground the funnel or fuel nozzle against the filler neck to avoid sparks when refueling.
•	When parking, lower all loaders, buckets, and hydraulics to the ground.
4. Pr	ecaution measures for operating heavy machinery
4.1.	Backhoes
[Job tit	le] ensures that backhoes are operated according to the following rules:
•	Know the working range of the machine.
•	Man Mings had, do not M. satisfy or day consecutive but.
•	So can consiste to in the day before sampling in months on the discrete. Will't sample and the discrete in last one property is which take.
•	Near after proposal to said or sent under any part of the reaction or had with the
•	Never allow anyone to ride the attachment or the load. This is an extremely dangerous practice.
•	Do not load a truck unless the driver is in a safe place. Then, load the truck from the rear or side.
•	the cognition of the agent person must be in their communities with the agents.
•	Near second the Wing agents of the reaction. They will be Wing both stops on the
	as the test ratio and shoulder dauge, the Wing agents, of the accountry may decrease
•	machine. If necessary, provide adequate shoring to prevent the machine from falling into the excavation.
•	Level off the work area if possible.
•	after all return to could be to the register.
•	Million sporting with the business on the spirit with, the secondary ray by over if the days is not store.
•	book and top with the trade server the digas, as the reduces digathly and recognic the
•	Always be sure that slings or chains used to lift the load are of adequate strength and that they are in good condition.

Commented [45A11]: Adapt to organization's needs; delete if such equipment is not used by the organization.

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[orga	nization name]	
•	Watch your boom clearance at all times.	
•	for all the region and allow the register to cast before questing as the register. Must findly as the accounts are lest enough to cause assert form at corner specifies.	
4.2.	Dozers	Commented [45A12]: Adapt to organizate such equipment is not used by the organization
[Job tit	le] ensures that dozers are operated according to the following rules:	such equipment is not used by the organization
•	Operate the controls only with the engine running.	

ion's needs: delete if

Carry implements close to the ground, approximately 40 cm (15 in) above ground level. Stay a safe distance from the edges of cliffs, overhangs, and slide areas.

If the machine begins to sideslip on a grade, immediately dispose of the load and turn the machine downhill.

Never straddle a cable, wire rope, or similar device nor allow others to do so.

Personnel are prohibited to be between the machine and trailing equipment when

4.3. Loaders

[Job title] ensures that loaders are operated according to the following rules:

This is a one-person machine; NO RIDERS ALLOWED.

Carry loaded buckets as close to the ground as possible. The further a loaded bucket is from the ground, the more unstable the loader becomes.

Stay in gear when traveling downhill – this will help control speed.

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Commented [45A13]: Adapt to organization's needs; delete if such equipment is not used by the organization.

[organ	ganization name]		
•	Never move a load above the heads of other workers.		
4.4.	smooth the surface.		
	Road grader		
[Job tit	le] ensures that road graders are operated according to the following rules:		
•	Do not permit riders in or on the grader. The grader is a one-person piece of equipment.		
•	Select a gear that will prevent excessive speed when going downhill. Do not coast downhill. Note and avoid all hazards and obstructions such as overhangs, ledges, slide areas, electrical lines, underground cables, water mains, or gas lines. Watch for bystanders and never allow anyone to be under or to reach into the grader or its attachments while operating.		
•	Ensure the grader is properly equipped for grading in dry or forested areas. Avoid lubrication or mechanical adjustments with the grader in motion or the engine operating. Keep your head, body, limbs, feet, and hands away from all moving parts.		
•	Use caution when crossing side hills, ridges, ditches, and other obstructions. Keep close to inside bank when working on a side hill road or cut. Extend the blade to material near outer edge.		

Commented [45A14]: Adapt to organization's needs; delete if such equipment is not used by the organization.

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 Operate the vehicle only on level surface when cutting high banks. ver [version] from [date]

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				- 1
orga	niza	ation	ınar	nel

4.5. Scrapers

[Job title] ensures that scrapers are operated according to the following rules:

- Do not try to climb on or off the machine when carrying tools or supplies. Use a hand line to pull equipment up onto the platform.
- -
- Specially the markets with while
- Specials for control cell, will for organ
- are provided.
- Carry bowl close to the ground, approximately 40 cm (15 in) above ground level.
- Stay a safe distance from the edges of cliffs, overhangs, and slide areas.
- •
- the specific to specify any specifical
- Most up not from from . I
- Personnel are prohibited from being between the machine and trailing equipment when maneuvering to connect them. Block the tongue or hitch of trailing equipment to align it with
- Teach on a little of the

the drawbar or hitch.

4.6. Skid steers

[Job title] ensures that skid steers are operated according to the following rules:

- There is no that some
- Their Rept. petits, and files of
- Check the work area for hazards such as holes, soft spots, and obstructions. Check over head for utility lines, doorway clearances, or other obstructions.
- Mount the machine wearing clean, dry shoes using the grab bars or handrails provided.
- Adjust the seat, fasten the seat belt, set the brake, and place gearshift in park or neutral
- The section of the p
 - CARBON MONOXIDE KILLS!
- Start the engine and check all controls to see that they are functioning properly.

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Commented [45A15]: Adapt to organization's needs; delete if such equipment is not used by the organization.

Commented [45A16]: Adapt to organization's needs; delete if such equipment is not used by the organization.

•	Check horn and back-up alarm to see that they are working.
•	material. NEVER leave the machine without first lowering the bucket, stopping the engine, setting the parking brake, and placing the gearshift in park or neutral. Dismount the machine carefully.
4.7.	Trucks
[Job titl	e] ensures that trucks are operated according to the following rules:
•	Truck drivers will be properly and thoroughly trained before attempting to do any work with or on any type of truck.
•	Place the gearshift into neutral and set the parking brake before starting the engine. Allow the engine to reach operating temperature and the air pressure to build to operating pressure before putting the truck into motion.
	Check the area around the truck for obstructions (tree limbs, overhead wires, etc.) before
•	must dump on a slope, place the truck so that it faces straight up or down the slope. Do not try to raise the box with the truck parked parallel with the slope. Remember that a dump truck is much more apt to tip over (or run into overhead obstructions) when spreading

Commented [45A17]: Adapt to organization's needs; delete if such equipment is not used by the organization.

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[organization name]

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