



JOB SAFETY ANALYSIS		DATE 8/31/15	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> REVISED	PAGE 1 of 2	
JSA TYPE CATEGORY <b>Mowing Operation</b>		WORK TYPE <b>Mowing</b>	WORK ACTIVITY (Description) <b>Mowing with a zero turn or riding lawnmower</b>		
DEVELOPMENT TEAM		POSITION / TITLE	REVIEWED BY:	POSITION / TITLE	
Aron Yakima		Project Manager	Dave Ruzich	Safety Coordinator	
<b>REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT</b>					
<input type="checkbox"/> LIFE VEST <input checked="" type="checkbox"/> HARD HAT <input type="checkbox"/> LIFELINE / BODY HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES	<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input checked="" type="checkbox"/> HEARING PROTECTION <input checked="" type="checkbox"/> SAFETY SHOES _____	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input checked="" type="checkbox"/> PPE CLOTHING: Long Sleeve Work Shirt.	<input checked="" type="checkbox"/> GLOVES _____ <input type="checkbox"/> OTHER _____		
<b><sup>1</sup>JOB STEPS</b>	<b><sup>2</sup>POTENTIAL HAZARDS</b>	<b><sup>3</sup>CRITICAL ACTIONS</b>			
1. Know your mower, its controls, and how they work	1.1 Inability to recognize hazards	1.1a Owner's manuals for zero turn/riding mower must be available. 1.1b Ensure all safety labels are clean and legible. 1.1c Know each control, its location, and how it works. 1.1d Know how to stop mower quickly in case of an emergency.			
2. Ensure operator is trained and appropriately dressed	2.1 Operator error 2.2 CAUGHT - Clothing Entanglement	2.1a Ensure operator is knowledgeable, experienced, and familiar with owner's manual safety requirements. Operator will conduct a (one-time) documented review of the owner's manual for all equipment utilized. 2. 2a Tie up long hair. Wear well fitted clothing, long sleeved shirt and non-skid soles to prevent entanglement.			
3. Inspect and fuel the zero turn/riding mower	3.1 CONTACT/CAUGHT - Injury or death due to not using Rollover Protection System (ROPS) and seat belt 3.2 CAUGHT - Injury or death due to getting caught in belts 3.3 CONTACT - Injury due to unauthorized modification 3.4 EXPOSURE/CONTACT - Injury due to fuel or oil leaks 3.5 EXPOSURE - Flash fire during refueling	3.1a Ensure Rollover Protection System (ROPS) is locked in the up position and in good condition on all zero turn mowers. 3.1b Ensure seat belt is operational and in good condition on zero turn mowers. 3.2a Ensure all belts are completely shielded. 3.2b Ensure all guards and are in place. 3.3a Ensure any modifications made to the mower have not compromised safety equipment. 3.4a Inspect for fuel, oil, and hydraulic leaks. Pressurized fuel and hydraulic leaks can penetrate skin causing serious injury. 3.5a Ensure mower is fueled before startup; never fuel mower while running or when engine is hot.			
4. Assess area to be mowed	4.1 CONTACT/CAUGHT - Rollover hazard due to uneven terrain 4.2 CONTACT - Injuries to workers and bystanders from flying debris 4.3 CONTACT - Injury due to stinging/biting insects.	4.1a Inspect the area first looking for ditches, slopes, stumps, rocks, and debris. Riding mowers are only to be utilized on flat surfaces. 4.2a Alert other workers/bystanders to stay at least 200 feet away from mower during operation. 4.2b If any person(s) get within 200 ft. of mower during operation shut the mowing operation down and clear the area. 4.3a. Inspect area for wasp, bees, or other stinging/biting insects. 4.3b. Ensure wasp spray is readily available as needed.			
5. Startup zero turn/riding mower	5.1 CONTACT/CAUGHT - Injury due to unexpected movement 5.2 EXPOSURE - Carbon monoxide poisoning 5.3 CONTACT/CAUGHT - Rider Injury 5.4 EXPOSURE - hearing loss due to long term exposure	5.1a Never start engine from anywhere other than the seat. Always fasten seat belt prior to starting zero turn and do not disconnect until engine is completely shut down. 5.1b Ensure all controls are in park or neutral and brake pedal is fully depressed before starting. 5.2a Never run engine in a closed shed or garage for extended periods of time. Continuously monitor for carbon monoxide if running indoors for short periods. 5.3a Do not allow any riders on mower at any time. 5.4a. Wear single hearing protection.			



<p>6. Operate zero turn/riding mower</p>	<p>6.1 CONTACT/CAUGHT - Rollover / ejection          6.2 CONTACT - Loss of control          6.3 CONTACT/CAUGHT - Operation on public roadways leading to collision or loss of control at high speed</p>	<p>6.1a Do not operate zero turn on steep slopes and ditches. Riding mowers must be used on flat surfaces only. Refer to owner's manual for recommended angles for zero turns.          6.1b Slow down for turns.          6.1c If on a zero turn keep seat belt on at all times and never attempt to get off any mower when engine is running.          6.2a Maintain safe speed at all times, use low gear for mowing.          6.2b Limit lift on mower decks to maintain steering control.          6.3a Minimize operation on public roadways.          6.3b Lock brake pedals together to help assure straight-line stops on riding mowers.          6.3c Always slow the mower down before turning. Turning at a high speed may tip the mower over.          6.3d When mowing along public road install mowing ahead signs and wear high visible clothing.</p>
<p>7. Shut down</p>	<p>7.1 CONTACT/CAUGHT - Injury due to unexpected movement</p>	<p>7.1a Park on level ground.          7.1b Turn off the mower deck PTO and lower deck to the ground and wait until mower stops completely.          7.1c Shut off engine, set parking brake, and disconnect the seatbelt.          7.1d Use three points of contact when dismounting mower.</p>

<sup>1</sup>Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

<sup>2</sup>A hazard is a potential danger. Break hazards into five types: **Contact** - victim is struck by or strikes an object; **Caught** - victim is caught on, caught in or caught between objects; **Fall** - victim falls to ground or lower level (includes slips and trips); **Exertion** - excessive strain or stress / ergonomics / lifting techniques; **Exposure** - inhalation/skin hazards.

<sup>3</sup>Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".