



## FORMAL HAZARD ASSESSMENT

TITLE: Driving				FHA #: 002								
Positions Considered:			Assessment Team:			Date Created:			April 4, 2022			
Owner Driver Field Operator			Robbie Stewart Jo Ling Giovanni Gomez			Revision #:			1			
						Last Revision Date:			May 28, 2023			
Tasks	Health	Safety	Hazards Associated with Task  <i>Identify hazards (as applicable) presented by: operations, equipment, vehicles, materials, products, working conditions and environment.</i>	Raw Risk Rating			Controls  <i>Consider the Hierarchy of Controls.</i>	Residual Risk Rating				
				Severity	Probability	Overall Risk Rating		Severity	Probability	Overall Risk Rating		
Walk Around/ Pre-trip Inspection		X	Worker Injury due to Slip, Trip or Fall	2	2	4	<b>Eng:</b> Guardrails / Handrails <b>Adm:</b> Signage, SWP, New Worker Orientation, ERP, Work-Rest Cycles, Situational Awareness, Adequate Lighting in Shop, Headlamp use <b>PPE:</b> Head Protection (when necessary), Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear (when necessary), Protective Footwear, Hand Protection / Cut Resistant Gloves as necessary to the task	2	1	2		
Operating Vehicle		X	Static Body Posture / Position	2	3	6	<b>Eng:</b> Headrest, Adjustable Cushioned Seats, Adjustable Steering Wheel <b>Adm:</b> SWP Ergonomics, Ergonomics Training Program Signage, SWP, Pre-Use Inspections, New Worker Orientation, ERP, Work-Rest Cycles <b>PPE:</b>	2	2	4		
		X	Body Part Contracting Pinch Point	2	2	4	<b>Eng:</b> <b>Adm:</b> SWP Ergonomics, Ergonomics Training Program Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP <b>PPE:</b> Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task	2	1	2		
		X	Backing Up in Congested Areas	2	2	4	<b>Eng:</b> Backup Camera and Alarm	2	1	2		



							<b>Adm:</b> Housekeeping, SWP, sufficient egress lighting, shop inspections, Use of a Spotter <b>PPE:</b>			
	X	Extreme Weather Conditions	3	3	9		<b>Eng:</b> <b>Adm:</b> Journey Management Plan, Pre-Use Inspections, New Worker Orientation, ERP, Work-Rest Cycles, Communication Procedures. Vehicle Headlights / High Beams, Winter Tires <b>PPE:</b> Winter gear/ equipment in vehicle for emergencies / vehicle breakdowns, emergency blanket, gloves	2	3	6
	X	Poor Road Conditions	3	2	6		<b>Eng:</b> <b>Adm:</b> Motor Vehicle Act, Safe Driving COP, Signage, Monthly Inspections, Preventative Maintenance Program, On-the-job training, ERP, Road Radio, Communication Device/Cellphone, Headlights / High Beams, Winter Tires <b>PPE:</b>	2	2	4
	X	Poor Lighting / Illumination	3	3	9		<b>Eng:</b> <b>Adm:</b> Drive Defensively, Safe Driving COP, Motor Vehicle Act, Preventative Maintenance Program, Pre-Trip Inspections, Use of Headlights and High Beams <b>PPE:</b>	2	2	4
	X	Insecure Equipment	3	2	6		<b>Eng:</b> <b>Adm:</b> Signage, SWP, Safety Program, Pre-Job Meeting, Pre-Use Inspections, New Worker Orientation, ERP, Cargo Securement Requirements <b>PPE:</b>	2	2	4
	X	Wildlife Encounters on Road	3	2	6		<b>Eng:</b> Truck headlights and high beams <b>Adm:</b> Defensive Driving training, Safe Driving COP, Working Alone COP, Wildlife Awareness Training, Signage, ERP <b>PPE:</b>	2	2	4
	X	Striking Overhead Utilities	3	3	9		<b>Eng:</b> <b>Adm:</b> Signage, SWP, Pre-Job Meeting, Housekeeping, Pre-Use Inspections, New Worker Orientation Limits of Approach for Electricity, ERP, Use of a Spotter <b>PPE:</b>	3	2	6
	X	Striking Hidden / Buried Lines or Equipment	3	3	9		<b>Eng:</b> <b>Adm:</b> H2S COP, H2S Alive Training, H2S Monitor, Windsock, Signage, SWP, Safety Program, Pre-Job Meeting, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP, Use of a Spotter. <b>PPE:</b>	3	2	6
	X	Obstacles / Hazards on Road	3	3	9		<b>Eng:</b>	3	2	6



							<b>Adm:</b> Driver Awareness Training, Journey Management Plan, Emergency Preparedness plans, Drive Defensively, Safe Driving COP, Motor Vehicle Act, Preventative Maintenance Program, Pre-Trip Inspections <b>PPE:</b>			
Climbing in and out of vehicle	X	Rushing / Complacency	2	2	4		<b>Eng:</b> <b>Adm:</b> Adequate Amounts of Rest, Stretch and Take Frequent Breaks, Job Rotation <b>PPE:</b>	2	1	2
	X	Failure to Use 3-Point Contact	2	2	4		<b>Eng:</b> Handholds, Handrails, Steps <b>Adm:</b> Worker Competency Program/ On-the-Job training, Signage, SWP, Pre-Job Meeting, New Worker Orientation <b>PPE:</b> Protective Footwear	2	1	2
Delivering Materials to Clients/ Communication	X	Worker Injury due to slip, trip or fall	2	2	4		<b>Eng:</b> <b>Adm:</b> Aware of Ground Conditions, Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP <b>PPE:</b> Protective Footwear, Hand Protection/ Cut Resistance	2	1	2
	X	Lack of communication	2	2	4		<b>Eng:</b> <b>Adm:</b> Communication Procedures, Journey Management Program, Pre-Job Meeting, New Worker Orientation <b>PPE:</b>	2	1	2
	X	Poor Cell Service	2	2	4		<b>Eng:</b> GPS in Vehicle <b>Adm:</b> Communication Procedures, Journey Management Program, Pre-Job Meeting, New Worker Orientation <b>PPE:</b>	2	1	2
	X	Dropping Material Resulting in Injury	3	2	6		<b>Eng:</b> <b>Adm:</b> Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP <b>PPE:</b> Head Protection (when necessary), Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear (when necessary), Protective Footwear, Hand Protection / Cut Resistant Gloves as necessary to the task	2	2	4
Fueling Vehicle	X	Spilled Chemicals Causing Worker Injury	3	2	6		<b>Eng:</b> Auto Shut-Off <b>Adm:</b> Spill pads, Safe Driving COP, SWP for refueling, signage, SDS, ERP <b>PPE:</b>	2	1	2
	X	Worker Injury due to Moving Vehicles	2	3	6		<b>Eng:</b> Back Up Cameras and Alarms <b>Adm:</b> Signage, Safe Driving COP, ERP, Situational Awareness, Use of a Spotter, New Worker Orientation <b>PPE:</b>	2	2	4
	X	Worker Injury Due to Chemical Exposure	2	2	4		<b>Eng:</b>	2	1	2



							<b>Adm:</b> Signage, housekeeping, pre-use inspections, new workers orientation, DSD, Manufacturer's Instructions, ERP, WHMIS <b>PPE:</b> Gloves, FR Coveralls			
	X	Flammable Gases/ Fumes / Vapours/ Explosions and Airborne Contaminates	2	3	6	<b>Eng:</b> Auto Shut off in Diesel Trucks <b>Adm:</b> Signage, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, SDS, ERP <b>PPE:</b> Hand protection	2	2	4	
	X	Gas Leak	2	3	6	<b>Eng:</b> Auto Shut off in Diesel Trucks, Ventilation Equipment <b>Adm:</b> Signage, Housekeeping, Pre-Use Inspections, New Worker Orientation, SDS, ERP and Evacuation Procedures, Response and Recovery Procedures <b>PPE:</b> Hand Protection, Safety Goggles, Face Shield, Gloves, Aprons, Respiratory Protection/Face Mask, Personal Gas Monitor	2	2	4	
Basic Vehicle Maintenance <ul style="list-style-type: none"> <li>• Change wipers</li> <li>• Check and fill oil</li> <li>• Replace burnt clearance lights</li> <li>• Cleaning windshield &amp; headlights</li> </ul>	X	Line of fire in yard (other vehicles)	4	4	16	<b>Eng:</b> <b>Adm:</b> Lights in loading zone, cones for area of control, speed limit 5km/hr in yard <b>PPE:</b> Fire-Resistant Clothing with High Visibility Stripes	3	2	6	
	X	Thermal Exposure (burns) <ul style="list-style-type: none"> <li>• Radiator</li> <li>• Engine oil</li> </ul>	3	4	12	<b>Eng:</b> <b>Adm:</b> Procedure: fluids may only be added and checked at start of day or after 30mins cooldown <b>PPE:</b> Safety Goggles, heavy leather gloves	2	2	4	
	X	Fall from height (accessing windshield or wipers)	2	3	6	<b>Eng:</b> <b>Adm:</b> Shop step ladder, Worker Assistance Procedures <b>PPE:</b> Appropriate footwear / workboots	2	2	4	



## Risk Matrix

		Severity			
		1 - Insignificant	2 - Minor	3 - Major	4 - Severe
Probability	4 - Almost Certain	Medium 4	High 8	Extreme 12	Extreme 16
	3 - Likely	Medium 3	Medium 6	High 9	Extreme 12
	2 - Unlikely	Low 2	Medium 4	Medium 6	High 8
	1 - Rare	Low 1	Low 2	Medium 3	Medium 4

**Probability** pertains to the extent of how likely it is for the risk to occur.

The 4 risk rating levels for this component are:

1. **Rare** – unlikely to happen or has never happened.
2. **Unlikely** – has the possibility to happen or has happened at least once.
3. **Likely** – almost sure to happen or has happened multiple times.
4. **Almost certain** – sure to happen or has happened frequently.

**Severity** is to determine the level of effects that the hazard could cause.

The 4 risk rating levels for this component are:

1. **Insignificant** – can cause injuries/illnesses requiring first aid or negligible property damage.
2. **Minor** – can cause moderate injuries/illnesses requiring medical aid or moderate property damage.
3. **Major** – can cause irreversible injuries/illnesses requiring long term aid or serious property damage.
4. **Severe** – can result in a fatality or irreversible property damage.

### Overall Risk Rating

**Severity x Probability = Overall Risk Rating**

**Low** – no further action needed; proper control measures are in place.

**Medium** – proceed with caution and monitor at regular intervals.

**High** – must be reviewed and reassessed prior to work proceeding.

**Extreme** – work must be stopped until adequate controls have reduced hazard to an acceptable level.

