

# FORMAL HAZARD ASSESSMENT

TITLE: Operating a Forklift					FHA #: 007						
Positions Considered: Assessment Team:						Date Created:	February 5, 2023				
Forklift operator Warehouse worker			Mary Anja Estrella Ferrara				Revision #:				
Supervisor		1	Drew Philips	1			Last Revision Date:				
					aw Ris Rating				Residual R Rating		_
Tasks	Health	Safety	Hazards Associated with Task  Identify hazards (as applicable) presented by; operations, equipment, vehicles, materials, products, working conditions and environment.	Severity	Probability	Overall Risk Rating	Controls  Consider the Hierarchy of Controls.		Severity	Probability	Overall Risk Rating
		x	Physical Hazards Causing Injury to Personnel on the Ground Near Machinery	2	2	4	Eng: Adm: Regular Workplace and S and ensuring that trip and slip ha encountered on the floor (i.e., lay Orientation.  PPE: Safety Hard Hats, Protecting Gloves (as required).	azards are addressed when ying objects or clutter). New Worker	2	1	2
Location and Set-Up of Equipment		x	Struck-by hazards by other operators working in the facility or warehouse	3	2	6	area. Heavy-gauge safety chain  Adm: Eye contact with the opera when noise levels inhibit auditory Equipment SOP. Using spotters visibility whenever possible.  PPE: Safety Hard Hats, Fire-Re		2	2	4
	X		Bodily Contact with Overhead Cage When Mounting the Forklift	2	2	4		afe work procedures. New Worker ng and use 3-point contact when	1	1	2



						<b>PPE:</b> Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes.			
						Eng: Adjustable Seating/ Lumbar Support. Height-adjustable headrests and arm rests.			
	X	Awkward Working Positions and Body Posture	s 2	2	4	Adm: Ergonomics Training Program, SWP Ergonomics, Avoid Prolonged Forklift Use, Work/Rest Cycle  PPE: Hand Protection/ Gloves (as required).	2 1		2
		X Body Contact with Pinch Points	2	2	4	Eng: Adm: Avoid moving parts of machinery. Keep fingers, hands, and arms away from backhoe bucket and other pinch points. Powered Mobile Equipment SOP. Lock Out/Tagout Procedures. New Worker Orientation.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Protective Footwear, Hand Protection/ Gloves (as required).	2	1	2
Loading and Unloading		X Static Electricity – Spark or Ignition	3	2	6	Eng: Ground/Bond Containers or Trucks  Adm: Shop Safety Practice, Inspections, Training, New Worker Orientation, Powered Mobile Equipment SOP.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection/ Gloves (as required).	2	2	4
		X Machinery – Unguarded Injury	3	2	6	Eng: Protective guard rails. Audible back-up signal from forklift when operating in reverse.  Adm: Lifting and Handling Loads SOP, Powered Mobile Equipment SOP, New Worker Orientation. Avoid moving parts of machinery and keep fingers, hands, and arms away from backhoe bucket or pinch points. Working in a buddy-system or using a spotter.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection/ Gloves (as required).	2	2	4
		X Compressed Gas - Explosion	3	3	9	Eng: Approved Containers, Storage Location.  Adm: Flammable and Combustible Gas SOP, Emergency Response Plan, Inspections, New Worker Orientation, Training. Ensure that the forklift is parked in an authorized area.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection/ Gloves (as required).	3	2	6
		X Excessive Noise Exposure	3	2	6	Eng:	2	2	4



						Adm: Establish forklift working areas. Standard hand signals when noise levels inhibit auditory communication. Working in a buddy-system or using a spotter. Work/Rest Cycle. Reduce travel speeds. Rubber surface mats.  PPE: Wear approved safety ear plugs or muffs when operating forklift or working close to noise source(s). Suitable Footwear, Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hand Protection/ Gloves (as required).			
	X	Unsafe Driving Increasing Risk of Collision or Tip Over	3	3	9	Eng: Audible back-up signal from forklift when operating in reverse.  Adm: Lifting and Handling Loads SWP, Powered Mobile Equipment SOP. Establish working zones. Personnel on the ground should keep away from the work area and backhoe unless they are required for the task. Reduce travel speed. Working in a buddy-system or using a spotter.  PPE:	3	2	6
	x	Blocked Visibility, Leading to Collisions	3	3	9	Eng: Audible back-up signal from forklift when operating in reverse.  Adm: Lifting and Handling Loads SWP, Powered Mobile Equipment SOP. Establish working zones. Personnel on the ground should keep away from the work area and backhoe unless they are required for the task. Reduce travel speed. Working in a buddy-system or using a spotter.  PPE:	3	2	6
Arrive at site of material loading	x	Improper loading may cause loss of control of truck due to instability.	3	3	9	<ul> <li>Eng: Protective guardrails. Audible back-up signal from forklift when operating in reverse.</li> <li>Adm: Lifting and Handling Loads SWP, Powered Mobile Equipment SOP. Reduce travel speed. Always stop completely before changing directions. Slowing down and sounding the horn at cross aisles and blind spots or other locations where vision can be obstructed. Working in a buddy-system or using a spotter. New Worker Orientation.</li> <li>Personnel on the ground should keep away from the work area unless they are required for the task.</li> <li>Do not approach heavy equipment without first establishing eye contact with the forklift operator.</li> <li>PPE:</li> </ul>	3	2	6
	X	Lifting Heavy Loads	3	2	6	Eng: Dolly, Lifting Equipment, Protective Guardrails, Audible back- up signal from forklift when operating in reverse.  Adm: Adequate Amounts of Rest, Stretch and Take Frequent Breaks, SWP Ergonomics, Housekeeping, Pre-Use Inspections,	2	2	4



							New Worker Orientation, ERP, Two-Worker Carry, Safe Manual Lifting/Carrying Techniques			
	x	W	Vorker Injury due to Slip/Trip/Fall	2	2	4	PPE: Protective Footwear, Hand Protection/ Gloves (as required).  Eng: Grip Mats, Handrails  Adm: Pre-Use Equipment Inspections and Shop/Warehouse Inspections, Housekeeping, New Worker Orientation. Ensure that the forklift is parked in an authorized area. Be careful with footing and use 3-point contact when mounting or dismounting from forklift. Adequate lighting in shop/warehouse.  PPE: Protective Footwear, Hand Protection/ Gloves (as required). Head Lamps If Entering Dim Area	2	1	2
		X Fa	alling Objects Causing Injury to Workers	3	3	9	Eng: Overhead guards on forklifts to protect operators,  Adm: Using headlights when lighting is dim or when operating at night. Regularly check overhead guard for broken welds, missing bolts, or other damage. Loading and Transporting Equipment Safe Work Procedure. Establishing no-work zones to limit traffic in area.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection/ Gloves (as required).	2	2	4
		X Fa	alling Objects Causing Property Damage	3	3	9	Eng: Adm: Using headlights when lighting is dim or when operating at night. Regularly check overhead guard for broken welds, missing bolts, or other damage. Loading and Transporting Equipment Safe Work Procedure. Establishing no-work zones to limit traffic in area.  PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection/ Gloves (as required).	2	2	4
Preventative Maintenance of Forklift			Changing Hoses Causing Splash/Spill - Chemical burn / Absorption	2	3	6	Eng: Adm: Preventive Maintenance Program, Manufacturer's Specifications, Out of Service Tag/Sign, Spill Response, Training, New Worker Orientation. Ensure that the forklift is parked in an authorized area.  PPE: Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Protective Footwear, Hand Protection/Gloves (as required).	1	2	2
			Changing Oil Causing Splash/Spill - Chemical burn / Absorption	2	3	6	Eng: Adm: Preventive Maintenance Program, Manufacturer's Specifications, Out of Service Tag/Sign, Spill Response, Training,	2	1	2



					New Worker Orientation. Ensure that the forklift is parked in an authorized area.  PPE: Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Protective Footwear, Hand Protection/Gloves (as required).			
х	Changing Propane Fuel Tank Causing Contact with Chemicals - Chemical burn / Absorption	3	2	6	Eng: Adm: Safe Handling of Propane (LPG) Fuel SWP, Preventive Maintenance Program, Manufacturer's Specifications, Training, New Worker Orientation. Competency Program. Ensure that the forklift is parked in an authorized area.  PPE: Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Protective Footwear, Hand Protection/Gloves (as required).	3	1	3



## **Risk Matrix**

#### Severity

		1 - Minor	2 - Moderate	3 - Major
JIIITS	3 - Very Likely	Medium 3	High 6	Extreme 9
Probability	2 - Unlikely	Low 2	Medium 4	High 6
בֿ	1 - Rare	Low 1	Low 2	Medium 3

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

The 3 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.

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

The 3 risk rating levels for this component are:

- 1. **Minor** can cause injuries/illnesses requiring first aid or negligible property damage.
- 2. **Moderate** can cause moderate injuries/illnesses requiring medical aid or moderate property damage.
- 3. **Major** can cause irreversible injuries/illnesses or fatality or may cause serious 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.

### FORMAL HAZARD ASSESSMENT REVIEW SIGNOFF

FORMAL HAZARD ASSESSMENT:	
DEPARTMENT:	
DATE OF REVIEW:	

**Disclosure:** by signing this formal hazard assessment review record I hereby acknowledge that I have participated in the review of this hazard assessment and understand the tasks, hazards, and controls as they written. I agree that I participated in the review of the hazard assessment and understand the engineering, administrative and personal protective equipment that I must use to protect myself from conducting tasks associated with this hazard assessment.

ATTENDEES							
PRINT NAME	POSITION	SIGNATURE					