Add:20-24 Bessemer Drive Dandenong south 3175
Telephone : 130003990687

NEW EQUIPMENT RISK ASSESSMENT

Manufacturer: HANGCHA
Model: CPD35-XEY2-SI
Application: Lithium forklift

Effective Date: 18/09/2024
Accepted by Site Owner:
Risk Assessment ID: HCAU-R0004

This risk assessment is a generic equipment risk assessment to be used in addition to, and is not intended in any way to replace, a site, application, or operator specific risk assessment. For further specific hazards and user information, reference should be made to AS2359 Powered Industrial Trucks (SAA Industrial Truck Code –Part2: Operation) and the operation instructions contained within the operators manual supplied with this truck.

Reference
Operators Manual P/N:

Risk Identification		Risk Analysis		Risk Evaluation		Risk Treatment		Residual Risk *(Risk given effective implementation of Hazard Control Strategies)*	Review
Risk Number	**Hazard Description (source, event or incident)**	**C**	**L**	**Risk (Level)**	**Risk Treatment required**	**Hazard Control Strategies**	**Supporting Documentation *(eg AS2359, Op Man.)***		
1	**Plant Tipover:** If lift Trucks are not operated properly they can tip over, which can result in serious injury or death. Factors which may affect tipover include load weight and size; center of gravity of the load; position of the load (rated load centre) , mast and attachment, height of attachment or load while traveling or turning; sharpness of the turn; floor or ground conditions; tire condition; and accelerating or braking. Lift Truck stability is affected by the surface on which the truck is being operated; by turning, especially at high speeds or on an incline; by running over objects, or into overhead structures, or off edges of traffic surfaces (platforms, wharves, docks, ramps, etc).	C_2	L_5	Medium	Yes	Start, stop, travel, steer, and brake smoothly. Use special care when traveling without load as the risk of sideways overturn is greater when turning. Do not operate on grades when the load engaging means is elevated above 300mm. Do not turn on grades. Travel on grades with load or load engaging means upgrade. Always keep a safe distance from the edges of traffic surfaces such as wharves, ramps, docks, platforms.	Operators manual	Low	
						Ensure only trained and certified operators are permitted to operate plant.	AS2359		
2	**Pedestrians access in Plant Operating Area:** Operators must be alert for pedestrians at all times. They should not drive up to anyone standing in front of an object. Extra care should be used at cross aisles, doorways and other locations where pedestrians can step into the path of travel of the plant.	C_1	L_3	High	Yes	• Before moving platform or truck, look forward, backward, upward and downward to be certain of a clear path of travel. • Operators should always look in the direction of travel to avoid injury to pedestrians. • Operators should always observe the tail swing area when making turns to make certain the area is clear of pedestrians.	Operators manual	Medium	
						• Ensure only trained and certified operators are permitted to operate plant.	AS2359		
						• Employers must consider exclusion of pedestrians in lift Truck operating areas, and have a Traffic management Plan.	WorkSafe, Feb 06, 2nd addition 'Forklift Safety - Reducing the Risk Publication'		

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3	**Falling Load :** It is generally not good practice to operate lift Trucks while there are persons in the vicinity of operations due to the potential for people to be crushed by a falling load.	C_2	L_3	High	Yes	• Ensure only trained and certified operators are permitted to operate plant. • Operators must be instructed to handle and stack loads within the rated capacity of the lift Truck. • Load pallet evenly within the dimensional limits of the pallet or platform. • Do not handle unstable or loosely stacked loads. • Before lifting, be sure load is centered and forks are completely under load.	Operators Manual	Low	
						• Be sure pallet or load is securely attached or stable on forks. • If pallet is used, position forks to the outer edges to minimize possibility of tipping.	Operators Manual AS2359		
4	**Contact with moving parts, Mast Components and chains or other :** The lift mechanism has moving parts with close clearances that can cause serious injury. Persons must never put hands, arms, head or legs through the mast or near the carriage or lift chains. This applies not only to the operator, but also to a helper. Reaching into the mast creates a potential for serious injury. Pedestrians should also never stand under or near the load or load elevating device.	C_2	L_5	Medium	Yes	• Ensure all personnel stay clear of mast assembly and the entire plant, if operation of controls is possible, or plant is not in correct shutdown condition.	Operators Manual Service Manual	Low	
						• Operate truck from designated operating position. • Never place any part of your body into the mast structure, or outside the truck.	Operators Manual		
						• Ensure all personnel in contact with plant are aware of mast hazards, and other potential pinch points, or moving part contact hazards	Operators Manual Service Manual		
5	**Unintended Lift Truck Movement Hazards:** Lift Trucks must be parked in a safe position. Failure to do so creates the potential for people to be struck by the unintended movement of the lift Truck.	C_4	L_4	Low	Yes	• Ensure operators follow correct plant shutdown and storage procedures. • When leaving the lift Truck, the operator must neutralize travel controls, fully lower lifting mechanism, and shut off power. • If the lift Truck is to be left on an incline, blocks must be placed on the downhill side of the wheels so the lift Truck cannot move.	Operators Manual Service Manual	Low	

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6	**Inadequate Operator Training Hazard :** The safe and efficient operation of a lift Truck requires a trained operator who knows and understands the operating, inspection and maintenance instructions and warnings in the operating manual and posted on the lift Truck. An operator who fails to follow these instructions can cause serious injury or death through the misuse of the machine.	C_2	L_3	High	Yes	• Ensure only trained and certified operators are permitted to operate plant. • Provide periodic training to raise operators awareness	AS2359	Low	
7	**Fire Hazards:** The operation of the lift Truck creates the potential for fire from various causes.	C_3	L_5	Low	Yes	• Ensure maintenance and service of plant is current. • Electrical systems must be inspected and maintained to reduce the potential for fires from electrical shorts. • A potential fire risk exists through the ignition of hydraulic fluid due to leaks from or failures in hydraulic lines. • Engine compartment should be regularly cleaned and inspected. • Plant to be kept clean, clear and free from flammable debris. • Do not store LPG containers near heat or potential ignition sources. • Only trained and authorised personnel are to operate filling equipment. • When checking, changing or filling LPG tank, stop engine, ensure no igniton sources are present.	Operators Manual Service Manual	Low	
8	**Inadequate Pre-Shift Inspections / Maintenance:** The pre-shift inspection is an inspection of the plant by the operator or Technician prior to the beginning of each work shift. The purpose of this inspection is to locate conditions that can adversely affect the truck's safe operation.	C_2	L_3	High	Yes	• Unacceptable conditions must be corrected prior to the use of the plant. • Items that must be checked are listed in the maintenance section of the Operator's Manual. • Records of pre-shift inspections should be maintained. • If truck found to be in need of repair, defective, or in anyway unsafe it should be reported to the proper authority and the truck removed from service until it has been restored to safe operating condition. • Ensure Operators are trained to perform pre-shift inspections • Ensure Technicians are trained in safe maintenance and repair practices	Operators Manual Operators Manual Operators Manual Service Manual	Low	

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9	**Lifting of Personnel with Lift Truck:** Lift trucks are designed and intended for handling materials. Most lift trucks are not designed to lift personnel. A lift truck should not be used to lift personnel unless it has been determined that there is no other practical option. Personnel must not ride on the forks or a pallet. If a lift truck is used to elevate personnel, a safety platform must be attached to the forks and carriage and a WorkSafe procedure for its use followed. Do not travel with personnel in the platform. The operator must remain at the controls while personnel are in the platform.	C_2	L_4	Medium	Yes	• Ensure only trained and certified operators are permitted to operate plant.	AS2359	Low	
						• Carry no passengers. • The operators position is designed for and must be used by the operator only.	Operators Manual		
						• Make work platform available to elevate personnel if required • Ensure correct approved procedure is followed • Check clearances prior to lifting personnel.	Operators Manual AS2359		
10	**Exhaust Emissions Exposure Hazard:** Propane powered Lift Trucks produce carbon monoxide which is a colorless, odorless, poisonous gas that can overcome people without warning. Enclosed or Confined areas must be well ventilated to remove exhaust emission from fork trucks. Well tuned and maintained machines will reduce exhaust emissions, but will not eliminate the need for proper ventilation.	C_3	L_4	Medium	Yes	• Ensure only trained and certified operators are permitted to operate plant. • Ensure operators understand the risk of carbon monoxide poisoning. • Ensure adequate ventilation of the intended work area at all times. • Ensure lift truck engine is well maintained and serviced. • Consider the fitment of closed loop catalytic exhaust systems for trucks working within confined areas or areas of high personnel density.	Operators Manual Service Manual AS2359	Low	
11	**Tire Changing Hazard:** Pneumatic tires may be mounted on multi-piece wheels. Tires must be deflated before a wheel can be disassembled. Tire changing and repair should only be performed by trained personnel. The wheel parts should be cleaned and inspected before installing a tire. Damaged or repaired wheel parts should not be used. The operator should not mix parts between different types or manufacturers of wheels. Add air pressure to the tires only in a safety cage.	C_3	L_5	Low	Yes	• Ensure only trained personnel change tire or wheel assemblies. • Follow the correct procedure for the chocking and jacking of the truck prior to changing tire. • Ensure safety cage is used for tire re-inflation.	Operators Manual Service Manual	Low	

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