TOYOTA / TMHA LHE130 - LHE150

Plant risk assessment and site verification

ISSUE CONTROL

Revision FC-2026.10.1. Issued 2 October 2026. Scheduled review 2 October 2028 (24 months). Document owner: Forklift Co Service Manager. Current master; machine/site verification and authorisation required.

SCOPE

LHE130 and LHE150 light-duty, pedestrian-controlled electric pallet trucks for low-level handling of palletised goods in weather-protected environments. No rider platform or mast-forklift coverage is implied. Assess the actual truck, battery, load, route and work method before use.

SOURCE AND CONFIGURATION

Based on supplied TMHA PHA-703 Version 3, issued 10 January 2022, source review date 10 January 2024. Those dates remain historical; this Forklift Co issue does not renew TMHA approval. TMHA current LHE150 information describes lithium-ion batteries. Verify the actual battery/charger, nameplate and serial-specific manual; apply acid/hydrogen controls only to lead-acid configurations.

LIMITS AND EXCLUSIONS

No gravel or soft surfaces. Cold/freezer or hazardous-area use requires the appropriate manufacturer-approved configuration. No towing, people lifting or riders. Special attachments, ramps, abnormal recovery or modifications require separate assessment and manufacturer limits. Do not assume a model name establishes capacity or battery configuration.

SITE RELEASE

All 12 source hazard topics are retained. Initial and residual ratings and signatures are intentionally blank for competent site assessment. No physical inspection, TMHA certification or site acceptance is asserted by this document.

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Before the machine is accepted on site

Site / principal contractor / work area

Fleet number / serial / make / exact model

Battery chemistry / weight / charger / capacity plate reference

Operator / training / practical competence / authorisation

Safe work procedure or SWMS / revision / task induction

Service evidence / pre-start / safety devices / defect clearance

OPERATOR COMPETENCE

WorkSafe Queensland excludes pedestrian-operated and pallet trucks from its LF forklift definition. Verify practical training, instruction, supervision and site authorisation for this actual configuration; do not copy mast-forklift licensing requirements into this assessment. Record other licences/induction where the work requires them.

HOLD POINT

Confirm current manual/safety bulletins, actual load plate, battery/charger instructions, condition and all safety functions. Validate traffic, floor, dock, charging and emergency arrangements. Missing essential evidence means hold the truck/task for competent review before use.

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Risk method, responsibilities and review

ASSESS AT THE ACTUAL SITE

Record initial likelihood (L), severity (S) and risk (R=L x S) for each hazard on pages 4-7. Reassess after controls are implemented and verified. Blank ratings mean unassessed. Add task hazards on page 8. Use the site matrix if required and identify it in the site record.

RATING GUIDE

L: 1 rare, 2 unlikely, 3 possible, 4 likely, 5 almost certain. S: 1 minor first aid, 2 medical treatment, 3 serious injury/time lost, 4 permanent disability, 5 fatality/multiple fatalities. This is a screening method, not certification.

DANGER / RISK MATRIX - likelihood (L) x severity (S)

	Severity 1	Severity 2	Severity 3	Severity 4	Severity 5
5 Almost certain	5 Moderate	10 High	15 High	20 Extreme	25 Extreme
4 Likely	4 Low	8 Moderate	12 High	16 High	20 Extreme
3 Possible	3 Low	6 Moderate	9 Moderate	12 High	15 High
2 Unlikely	2 Low	4 Low	6 Moderate	8 Moderate	10 High
1 Rare	1 Low	2 Low	3 Low	4 Low	5 Moderate

ACTION BANDS

1-4 Low: maintain/monitor. 5-9 Moderate: implement controls and supervisor authorisation. 10-16 High: do not start until further controls reduce risk and competent review authorises work. 17-25 Extreme: stop and redesign. A low score cannot waive a required control.

CONTROL ORDER AND OWNERSHIP

Eliminate exposure first where practicable, then substitution, isolation and engineering, supported by procedures/training and PPE. Service Manager: plant condition and documents. Site supervisor: workplace assessment, controls and consultation. Operator: pre-start/safe use/reporting. Carrier and technician: task competence and isolation/transport controls.

REVIEW FREQUENCY

24 months is Forklift Co policy, not a universal legal expiry. Review earlier after incidents, changed plant/work/attachments, new hazards, ineffective controls or consultation identifying a need. Retain the completed site copy and version history.

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Operation: people and environment

1. Unauthorised or untrained use

Potential harm: Collision, crushing or uncontrolled movement.

Permit only trained, competent and authorised operators familiar with the actual truck. Read the manual, capacity plate and warning labels; keep the manual available with the plant. Use keypad access control. When leaving unattended, switch off using the red 0 button, secure access and park as the manual directs.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

2. People, fixtures and traffic

Potential harm: Pedestrian injury, trapping or collision.

Set site speeds and segregate pedestrians, intersections and doorways. Check the route before moving; look in the direction of travel. Travel smoothly, slow for turns and slippery floors, and allow loaded stopping distance. No riders or passengers. In walkie position keep a clear escape space, avoid trapping against objects and keep feet clear. Verify guards, horn and safety reversing switch. Use visibility aids where required.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

3. Operating environment

Potential harm: Loss of control, instability or unsuitable exposure.

Use in a weather-protected environment on firm, sound, suitable surfaces. No gravel or soft ground. Avoid depressions, grates and manholes. Cold/freezer rooms require the specifically approved modification; hazardous areas require a truck designed and approved for that area. Check doorways, racking, pipes, beams and lighting. Confirm floor bearing capacity for truck plus load.

Responsible: Site supervisor / operator

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Operation: loads and crush points

4. Stability, load and gradients

Potential harm: Overturn, dropped load or crush injury.

Verify actual rating plate, battery weight and approved configuration. Inspect pallets and distribute loads evenly; assess dimensions and centre of gravity. Travel on level, clear ground. Avoid ramps and grades; never turn on a gradient. Where the actual manual permits ramp use, follow its limits and forks-up-ramp orientation for loaded and unloaded travel. Stop before lifting/depositing and fully engage the forks. No towing. Double-pallet guidance applies only to an approved fitted double-pallet configuration.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

5. Hands, feet and steering tiller

Potential harm: Crush, pinch or entrapment injury.

Keep hands and body clear of tiller sweep, frame, wheels and battery pinch points. Wear protective steel-toe footwear; keep hands and tiller dry and clean. Use turtle slow mode for close manoeuvring only as trained. The source notes turtle mode can override the tiller brake when travel is activated: confirm this behaviour on the actual truck and keep an escape route. Never rely on a control position without checking its function.

Responsible: Operator / Service Manager

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

6. Falling loads

Potential harm: Impact or crush injuries to people.

Keep people outside the load path and never under raised forks or load. Use sound pallets; secure and balance goods within actual plate limits. Reduce speed when travelling or turning with a load. Stop if the load obscures a safe view or becomes unstable; arrange an assessed method rather than travelling blindly. Do not lift people.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Docks, footing and safety controls

7. Docks, levellers and tailgates

Potential harm: Fall from an edge, vehicle movement or collapse.

Guard elevated dock edges. Verify dock, leveller, tailgate and vehicle capacity for the combined truck/load/operator exposure. Secure the vehicle at the dock using the site restraint procedure, parking brakes and wheel chocks. Do not manoeuvre on a tailgate lifter: travel directly into/out of the transporter and manoeuvre only on the dock or inside the transporter. Plan loading exclusion zones and ramps with the carrier.

Responsible: Carrier / supervisor / operator

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

8. Slips, trips and falls

Potential harm: Loss of footing or trapping beside the truck.

Keep floors and travel routes clear of oil, grease, loose materials and debris. Wear suitable non-slip protective footwear and fitted clothing. Remove trip hazards and maintain lighting. Do not walk backwards into obstacles; choose a safe travel position and stop when footing or escape clearance is inadequate.

Responsible: Operator / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

9. Mechanical failure and servicing

Potential harm: Unexpected movement or failed safety controls.

Perform and record pre-start checks each shift; follow manufacturer time/hour service intervals. Verify emergency stop, battery isolation, horn, guards, keypad, safety reversing and brakes. Source braking uses travel reversal (plugging) and tiller-operated electro-mechanical braking; verify the actual manual and all modes, including turtle mode. Isolate/tag defects and clear them through authorised service personnel. No modification without TMHA approval.

Responsible: Operator / Service Manager / technician

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Battery, charging and handling

10. Battery charging, fire and gases

Potential harm: Fire, burns, explosion or harmful exposure.

Confirm battery chemistry, approved charger and serial-specific instructions before charging. Use a designated suitable area with ignition controls and adequate ventilation. Restrict charging/maintenance to trained staff; switch charger off before unplugging. Lead-acid: control hydrogen, no smoking/ignition and open covers only if the manual requires. Lithium-ion: use approved equipment, inspect for damage/heat/swelling and isolate unsafe batteries; apply the supplier emergency plan. Never apply lead-acid servicing to a sealed lithium battery.

Responsible: Operator / technician / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

11. Battery chemicals and electrical energy

Potential harm: Chemical burns, electric shock or short circuit.

Identify the fitted battery and relevant SDS. Lead-acid electrolyte work requires assessed acid-resistant PPE, eye/face protection, eyewash, spill containment and lawful disposal arrangements. Lithium-ion is sealed: do not open, add fluid or attempt unauthorised repair. Control exposed terminals, remove conductive items and use the approved isolation method. For leaks, damage or unusual heat stop, isolate the area and follow the supplier/site emergency plan.

Responsible: Trained technician / supervisor

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

12. Battery removal and manual handling

Potential harm: Strain, crush or pinched fingers.

Confirm battery mass and nameplate weight requirements; use approved lifting/pulling aids and a planned method. Keep fingers clear of battery and frame. Side-roller instructions apply only where that configuration is fitted. Support and secure the battery against movement, prevent terminal short circuits, and inspect locks/connectors before return to service. Do not substitute battery weight or chemistry without manufacturer approval.

Responsible: Trained technician / Service Manager

Initial L / S / R	Residual L / S / R	Verified by / date / evidence

Site controls, consultation and authorisation

Additional hazards / initial and residual risks / controls

Outstanding actions / responsible person / due date

Workers and representatives consulted / date

Control evidence / traffic / docks / battery / emergency plan

Competent assessor name / role / signature / date

Site supervisor / PCBU authorisation / restrictions / date

RELEASE DECISION

Record accepted for stated task / accepted with restrictions / not accepted. Required controls must be in place, residual risks acceptable and workers instructed. This assessment supports the task/site safe-work procedure or SWMS; it does not replace it. Site acceptance applies only to the stated truck and task.

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Version history and current reference register

VERSION HISTORY

TMHA PHA-703 Version 3: issued 10 January 2022, review 10 January 2024; original 5-page source retained unchanged. FC-2026.10.1: 2 October 2026; branded 9-page fillable master, all 12 source hazard topics, visible risk matrix and battery-configuration checks. Source authorisations are not copied as Forklift Co or current manufacturer approval.

TMHA PHA-703 Version 3 (supplied PDF; immutable source history)

TMHA current LHE150 model information / lithium-ion configuration

WorkSafe Queensland: Forklift truck licensing definition

Managing the risks of plant in the workplace Code of Practice 2021

How to manage work health and safety risks Code of Practice 2021

SOURCE STANDARDS AND MANUFACTURER EVIDENCE

The 2022 source lists AS 2359.1:2019, AS 2359.2:2013, AS 2359.6:2013 and ISO 3691 parts 1/5; it notes applicability varies with manufacture date. These are historical source references, not a new conformity claim or assertion of current editions. Obtain applicable serial-specific standards, operator manual, battery/charger instructions and safety bulletins from TMHA before release.

REFERENCE CHECK AND DOCUMENT CONTROL

Regulator and TMHA public information checked 2 October 2026. No manufacturer sign-off or site inspection has been fabricated. Scheduled review 2 October 2028, or earlier when controls/conditions change. Download the current master from FCOS or the Forklift Co website; retain completed site evidence.