

STANDARDS

Stan Palmer, *Toyota Material Handling*

2017



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Contents

- AS2359.1 – 2015
 - Operator Protection
 - Travel Speeds
 - Elevating Operator Trucks
 - Stability – Container Handling
- AS2359-1 – 2015 Amendment 1:2017
- AS2359.2 – 2013
 - Operator Daily Checks
 - Authorisation of operators
 - Modification of forklifts

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AS2359.1-2015

- Major Changes
 - Operator Protection – Seatbelt Interlock
 - Travel Speed – Reach Counterbalance trucks
 - Elevating Operator Type Trucks
 - Container handling
 - Capacity plate (graphs not permitted)
- Implementation Date
 - June 2016

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AS2359.1-2015

- Operator Protection
 - Sit-down centre controlled Counterbalanced trucks must be fitted with a sequenced interlock seatbelt.
 - Sequence logic requires that operator (seat switch) presence must be detected, then seatbelt engaged, before truck is able to drive.
 - Note seatbelts are not recommended on end controlled sit down reach type trucks



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AS2359.1-2015

- Travel Speeds
 - Pedestrian controlled trucks limited to 6 kph
 - Stand on trucks and pedestrian trucks with folding platforms limited to 16 kph



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AS2359.1-2015

- Travel Speeds
 - Reach trucks and electric Counterbalance trucks limited to 3 kph when mast raised



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AS2359.1-2015

- Elevating Operator Type Trucks
 - ISO 3691.3 Incorporated into standard AS2359.1
 - Guarding on operator platforms required for all lift heights must be interlocked.
 - Requirements for guarding on supplementary platforms.
 - Fall arrest anchorage must be labelled to indicate number of operators
 - Sensing systems now permitted.



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AS2359.1-2015

Container Handling

- Counterbalance forklifts used for container handling must be rated according to AS4972.
 - Travel with elevated loads
 - Label affixed to truck
 - Operating conditions
- 6 m (20 foot) containers may be carried on forks.
- Containers > 6m (20 feet) require a spreader



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AS2359.1-2015

- Name Plates

- Name plates (capacity) with derate graphs are no longer allowed.
- Name plates shall list the capacity at the maximum lift height, and any alternative capacity



HYSTER Lift Truck Model H12.00XM-12EC
Serial No. F019E01690B
Attachment: 2500 mm SS Crg + 2440 mm Forks

Truck Weight 20650 kg
Forward/Back Tilt 6/5.0 Degrees
Tread Width 2870 mm

Tyre	Front		Rear	
	Size	Pressure	Size	Pressure
	12.00X20 Dual Pneu	750 KPA	12.00X20 Pneu	750 KPA

Load Height Dim. A	MAXIMUM CAPACITY Mast Vertical	Load Centre		MAXIMUM CAPACITY Mast Fwd Tilted	Load Centre	
		Dim. B	Dim. C		Dim. B	Dim. C
3700 mm	10000 kg	600 mm	600 mm	10000 kg	600 mm	600 mm
3700 mm	10000 kg	1220 mm	1220 mm	10000 kg	1220 mm	1220 mm

Failure to follow operating, inspection, and maintenance instructions can cause serious injury or death!
CAPACITY WITH MAST VERTICAL OR MAST TILTED FORWARD AND EQUIPPED AS SHOWN

Read Operating Manual located on or near seat

Trained Operators and Mechanics Only

28467 0 - Hyster (CE) rpt

AS2359.1-2015

Amendment 1:2017

- Referenced standards
 - Delete stability requirements in AS2359-1:2015 Table 3.1, Figures 3.1, 3.2 and 3.3. Replaced by AS/ISO 22915-21:2015 Order-picking trucks with operator position elevating above 1200mm.
 - Delete stability requirements in AS2359-1:2015 Appendix A clause A4 Turret type high-lift trucks. Replaced by AS/ISO 22915-22:2016 Lateral and front stacking trucks with and without elevating operator position.
 - Delete stability requirements In AS2359-1:2015 in clause 3.2.7 reference to AS4972 Counterbalance trucks handling freight containers and replace with ISO 22915-9:2014 Counterbalanced trucks with mast handling freight containers of 6m (20 ft) length and longer.

The logo for AITA (Australian Institute of Transport and Logistics) is displayed in a vertical orientation within a dark rectangular box.

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AS2359.1-2015

Amendment 1:2017

- Clause 6.4 Fork arm extensions.
 - Fork arm extensions (slipper forks) shall support 100% of the load that is intended to be lifted. The load centre distance shall be 50% of the length of the slipper forks.
- Clause 7.4.1
 - Sequential seatbelts.
 - Clarification of requirement. Tow tractors are not required to have sequential seatbelts fitted.

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AS2359.2-2013

- AS2359.2-2013 Operations
 - Daily operator checks
 - Authorisation of operators & Unattended trucks
 - Approval for Modification

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AS2359.2-2013

- Daily Operator Checks
 - Daily operator checks are important to ensure that trucks are safe to operate.
 - Any problems identified need to be reported to a supervisor and the truck tagged out and the fault repaired prior to the truck being returned to service.
 - Where attachments are fitted check that the truck is rated for use with the attachment
 - The attachment should be listed on the nameplate

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AS2359.2-2013



800-527-3746
www.tmhnc.com

Date: _____ Truck#: _____ Operator: _____
Start Hour: _____ End Hour: _____ Fuel: _____

Electric Truck Daily Check List

Indicate an **X** where a problem is detected and a **✓** to indicate no problems visible.

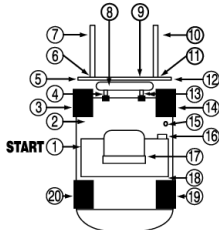
Visual Inspection

- | Visual Inspection | COMMENTS |
|---|----------|
| 1. <input type="checkbox"/> Battery | _____ |
| <input type="checkbox"/> Vent Caps | _____ |
| <input type="checkbox"/> Connector Covers | _____ |
| <input type="checkbox"/> Cables | _____ |
| 2. <input type="checkbox"/> Overhead Guard | _____ |
| 3. <input type="checkbox"/> Front Tire (Left) | _____ |
| 4. <input type="checkbox"/> Tilt Cylinder | _____ |
| 5. <input type="checkbox"/> Carriage | _____ |
| 6. <input type="checkbox"/> Fork Locking Pin (Left) | _____ |
| 7. <input type="checkbox"/> Fork (Left) | _____ |
| <input type="checkbox"/> (Attachment Applicable) | _____ |
| 8. <input type="checkbox"/> Mast | _____ |
| 9. <input type="checkbox"/> Lift Cylinder | _____ |
| <input type="checkbox"/> Lift Chains | _____ |
| 10. <input type="checkbox"/> Fork (Right) | _____ |
| <input type="checkbox"/> (Attachment Applicable) | _____ |
| 11. <input type="checkbox"/> Fork Locking Pin (Right) | _____ |
| 12. <input type="checkbox"/> Carriage | _____ |
| 13. <input type="checkbox"/> Tilt Cylinder | _____ |
| 14. <input type="checkbox"/> Front Tire (Right) | _____ |
| 15. <input type="checkbox"/> Hydraulic Oil | _____ |
| 16. <input type="checkbox"/> Battery Connectors | _____ |
| 17. <input type="checkbox"/> Seat & Seat Belt | _____ |
| 18. <input type="checkbox"/> Overhead Guard | _____ |
| 19. <input type="checkbox"/> Rear Tire (Right) | _____ |
| 20. <input type="checkbox"/> Rear Tire (Left) | _____ |

Operational Inspection

- | Operational Inspection | COMMENTS |
|---|----------|
| A. <input type="checkbox"/> Listen for Unusual Noise | _____ |
| B. <input type="checkbox"/> Check Service & Parking Brake | _____ |
| C. <input type="checkbox"/> Lifting Control | _____ |
| D. <input type="checkbox"/> Tilt Control | _____ |
| E. <input type="checkbox"/> Forward Driving | _____ |
| <input type="checkbox"/> Accelerator | _____ |
| <input type="checkbox"/> Steering | _____ |
| <input type="checkbox"/> Braking | _____ |
| F. <input type="checkbox"/> Reverse Driving | _____ |
| <input type="checkbox"/> Accelerator | _____ |
| <input type="checkbox"/> Steering | _____ |
| <input type="checkbox"/> Braking | _____ |
| <input type="checkbox"/> Backup Alarm | _____ |
| G. <input type="checkbox"/> Lights | _____ |
| H. <input type="checkbox"/> Horn | _____ |
| I. <input type="checkbox"/> Gauges | _____ |
| J. <input type="checkbox"/> Oil Spots on Floor | _____ |

WALK AROUND

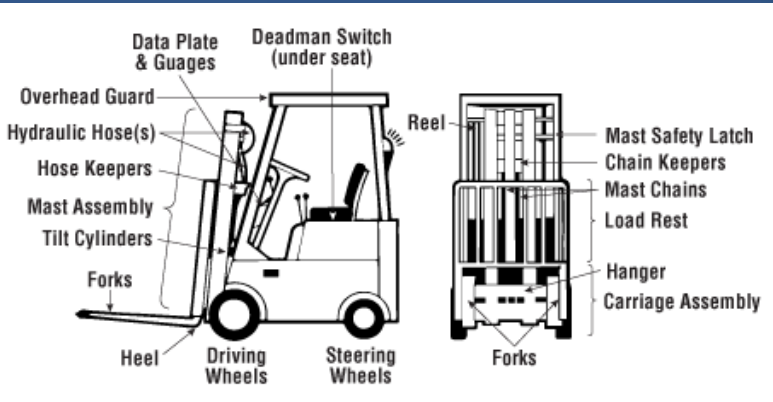


CAUTION: This is not a complete list of all items which may require attention. Operators are responsible for ensuring that the lift truck is in proper working condition in accordance with the manufacturer's specifications.

DO NOT operate lift truck if a problem is detected. Report all problems to the service department immediately.

SIGNATURE: _____

TO BE COMPLETED BY DESIGNATED OPERATOR AND FORWARDED TO SUPERVISOR PRIOR TO SHIFT.



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AS2359.2-2013

- Authorisation of Operators
 - Operators must not only be appropriately trained, they must also be authorised to use a truck.
 - Holding an LF or LO license is not authorisation to use a fork lift. It is acknowledgement of a persons skills
 - When trucks are left unattended the must be powered off and prevent unauthorised users operating the truck
 - This may be a key, swipe card or similar

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AS2359.2-2013

- Approval of Modifications
 - Written approval from manufacturer or agent is required where change affects;
 - Capacity
 - Safety
 - Function
 - Performance
 - Nameplates shall be amended after modifications have been carried out prior to the truck being returned to service.



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TRAINING IMPLICATIONS

Todd Brennan
Forkpro Australia



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**Qualified
Licensed
Trained
Skilled
Authorised**

**WATCH
OUT FOR
YOUR
MATES!**



**Australian Industrial
Truck Association**
"Lifting Forklift Safety"

AITA.net.au

What is a HRW Licence

- High Risk Work Licence.
- Name given to the culled list of equipment operating licences.
- Previously Certificate of Competence.

The logo for AITA (Association of Industrial Truck and Tractor Associations) is displayed vertically in a dark red box with white text.

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What does need a HRWL?

- Currently 29 Classes of High Risk Work Licence.
- Certain licences no longer required.
- E.g Earthmoving licences

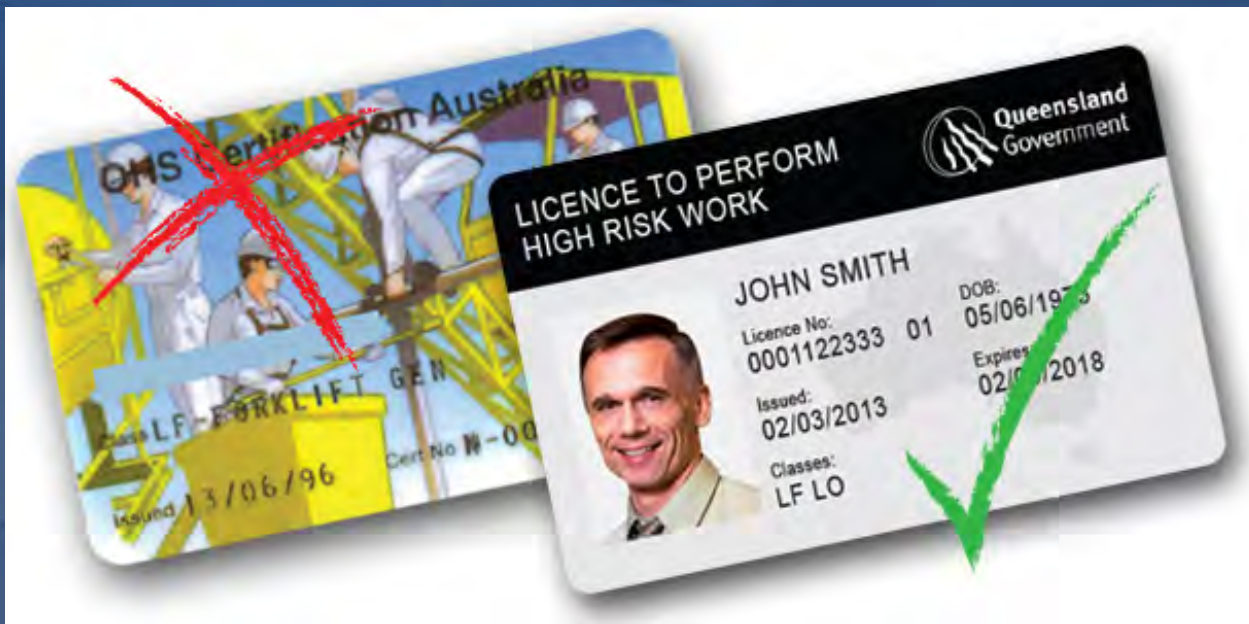
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“High Risk Work”

- Key points.
 - Bring all current licences up to renewable photo type.
 - Standardise classes nationally.
 - Standard ‘secure’ national photo licence card.
 - Introduction of ‘VET’ system for training/licencing under regulated training units.

The logo for AITA (Australian Industry Training Agency) is displayed vertically in a dark red box with white text.

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What does LF and LO mean?

- A series of licences still remain in the Loadshifting group (L)
- (F) Forklift. .i.e. LF
- (O) Order Picking Forklift i.e. LO

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Definitions

- QLD Work Health and Safety Regulation 2011.
- Schedule 3 Definitions.....

“forklift truck, for schedule 3, means a powered industrial truck equipped with lifting media made up of a mast and an elevating load carriage to which is attached a pair of fork arms or other arms that can be raised 900mm or more above the ground, but does not include a pedestrian-operated truck or pallet truck.”

“order-picking forklift truck, for schedule 3, means a forklift truck where the operator’s controls are incorporated with the lifting media and elevate with the lifting media.”



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VET system

- Training now regulated and must be delivered by a Registered Training Organisation with correct scope and approvals.
- Must enrol prior to commencing training.
- On-the-job training may form part but not all the training (under training plan).
- Must be trained against the approved Unit of Competence.
- Licence assessment only after completing training.

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VET System



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Process

- Enrolment with an RTO.
- Training to the prescribed Unit of Competence
 - TLILIC2001 – Licence to operate a forklift
 - TLILIC2002 - Licence to operate an order picking forklift

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Process

- Prepare for assessment.
- RTO arranges an authorised licence Assessor to undertake licence assessment (using the mandated assessment tool).
- Apply for the licence to be issued.

The logo for AITA (Assessment Institute of Transport Australia) is displayed vertically in a dark red box with white text.

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- **High risk work (HRW) licence application process**

Step 1

- Find an RTO offering training for a HRW licence class.

Step 2

- Complete both formal training and informal learning through your RTO.

Step 3

- Book in a theory and practical assessment with your RTO. Bookings for assessments need to be made at least six business days in advance.
- Successful applicants will receive an assessment summary (AS1) from the accredited assessor and a statement of attainment from the RTO.

Step 4

- Complete the online application for a new Queensland HRW Licence
- This must be done within 60 days of successfully completing the practical assessment.
- Note: Interstate residents can apply for a Queensland HRW licence as long as they were trained and assessed in Queensland by a Queensland based registered training organisation (RTO) and assessor.

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You will need:

- HRW Assessment Summary - AS1 form/s issued by a Queensland Accredited Assessor.
- Details of their QGov/Google/Microsoft account. If you do not have one of these accounts you can register for a QGov account during the application process.
- A valid email address.
- The customer reference number (CRN) from one of the following Queensland Transport and Main Roads (TMR) issued licence cards:
 - i.e. Driver's Licence,
 - Proof of age card,
 - Marine licence indicator card, or
 - Industry authority card.
- If you **do not** hold one of these cards you can still lodge your application; Workplace Health and Safety Queensland (WHSQ) will contact you **after you have lodged the online application** to provide information about how to obtain a TMR CRN.
- Details of any photographic HRW licences you hold that were issued by another state, territory or the Commonwealth.
- A credit or debit visa card to pay the \$91.50 **application fee**

Step 5

- Retain your AS1 and proof of payment as evidence that you can lawfully perform work in the relevant class of high risk, pending a decision on your application.

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I'm licenced now!



DTBENICED

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Suitable and adequate

- “Suitable and adequate” training must be provided.
- HRW licence is only a part of this.
- Employer is responsible to ensure this happens.

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**Qualified
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- **Work Health and Safety ACT 2011.**

Division 2 Primary duty of care

19 Primary duty of care.

Section 3

(f) the provision of any information, training, instruction or supervision that is necessary to protect all persons from risks to their health and safety arising from work carried out as part of the conduct of the business or undertaking;



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- WHS Regulation 2011
- Part 3.2 General workplace management

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Part 3.2 General workplace management

Division 1 Information, training and instruction

39 Provision of information, training and instruction

(1) This section applies for section 19 of the Act to a person conducting a business or undertaking.

(2) The person must ensure that information, training and instruction provided to a worker is suitable and adequate having regard to—

(a) the nature of the work carried out by the worker; and

(b) the nature of the risks associated with the work at the time the information, training or instruction is provided;

and

(c) the control measures implemented.

(3) The person must ensure, so far as is reasonably practicable, that the information, training and instruction is provided in a way that is readily understandable by any person to whom it is provided.

Maximum penalty—60 penalty units.



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AS2359 Part 2 - 2013

- Section 2.1 Qualification of operators.
- Section 2.2 Training of operators
- Section 2.3 Authorisation of operators.
- Section 2.4 Operating procedures

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AS2359 Part 2 - 2013

“Ongoing” Refresher Training “Should not exceed 5 years”.

Verification of Competence (VoC).

- Plans
- Records
- Details
- Copies

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Implications for the employee

***“What if we train them
and they leave?”***

***What if you don't train
them and they stay?***

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Codes of practice

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Relevance of Codes of Practice

A code of practice provides practical guidance for people who have work health and safety duties. These codes give guidance on:

- how to achieve the standards required under the Act
- effective ways to identify and manage risks.

A code of practice applies to anyone who has a duty of care in the circumstances described in the code. In most cases, following an approved code of practice would achieve compliance with the health and safety duties in the Act, in relation to the subject matter of the code.

Like regulations, codes of practice deal with particular issues and do not cover all hazards or risks which may arise. The health and safety duties require duty holders to consider all risks associated with work, not only those for which regulations and codes of practice exist.

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Codes of Practice



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**MANAGING RISKS OF PLANT
IN THE WORKPLACE**
Code of Practice

MARCH 2016



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**NATIONAL STANDARD
FOR LICENSING
PERSONS PERFORMING
HIGH RISK WORK**



Australian Government
Australian Safety and Compensation Council



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**Qualified
Licensed
Trained
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**WATCH
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Thank you

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AITA – Safety Seminar

Questions & Answers

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AITA Safety Seminar

- Thank you for joining us.
- You can find more information at:

www.aita.net.au

The AITA logo is a vertical rectangle with the letters 'AITA' in white, set against a dark red background.

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