

# REACH STACKER

Learner Workbook (Formative assessment)

## TRAINER'S MARKING GUIDE

TLILIC0011 –

Licence to operate a reach stacker (greater than 3 tonnes capacity)



This resource was developed by



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SAMPLE

## 1. Plan work / task

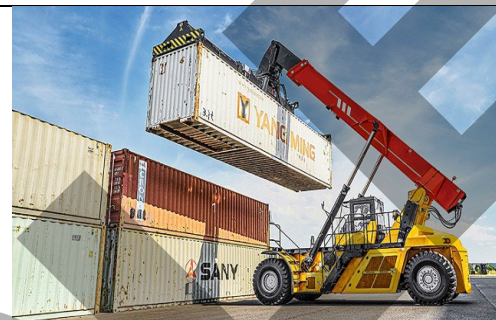


### Question 1 (PC 1.1)

#### 1. What is a reach stacker?

Answer may include but is not limited to:

A reach stacker is a type of heavy-duty machine used in ports and warehouses to lift and move large shipping containers.



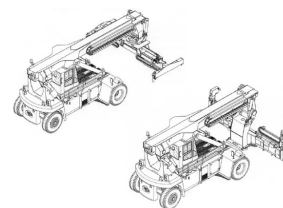
### Question 2 (PC 1.1)

#### Name 4 places you can find information about a reach stacker?

Answer may include but is not limited to:

- In the operator's manual.
- On load charts.
- In manufacturer's specifications such as decals.
- Marked or labelled on the reach stacker.

#### OPERATION AND MAINTENANCE MANUAL



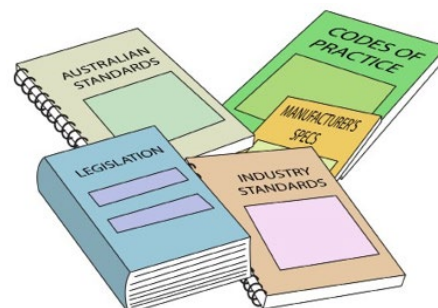
#### REACH STACKER

### Question 3 (PC 1.1)

#### Name 4 documents where you might find workplace information?

Answer may include but is not limited to:

- Reach stacker manufacturers instructions such as an operator's manual
- Safe work or job procedures
- Specific workplace policies and procedures
- OHS / WHS workplace representatives
- Plans by managers
- Codes of practice
- Guidelines for the safe operation of reach stackers and attachments
- WHS /OHS policy
- Health and Safety Acts and Regulations (OHS/WHS)



**Question 12 (PC 1.3)**

**What is working load limit (WLL)?**

Answer may include but is not limited to:

WLL is a practical limit set to ensure safe operation of the equipment in real-world conditions.

The WLL is often set lower than the MRC to provide a safety margin and account for operational variables.



**Question 13 (PC 1.3)**

**What is dynamic loading?**

Answer may include but is not limited to:

Dynamic loading on a reach stacker refers to the additional stresses and forces placed on the equipment due to movement, acceleration, deceleration, and other dynamic actions during operation.

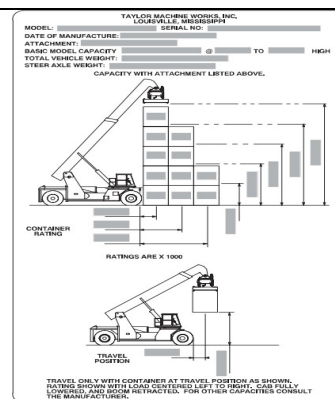


**Question 14 (PC 1.3)**

**What information can you get from the data plate? List two (2).**

Answer may include but is not limited to:

- Manufacturer
- Model and Serial Number
- Maximum Rated Capacity (MRC)
- Load Charts
- Operating Instructions Compliance Information.

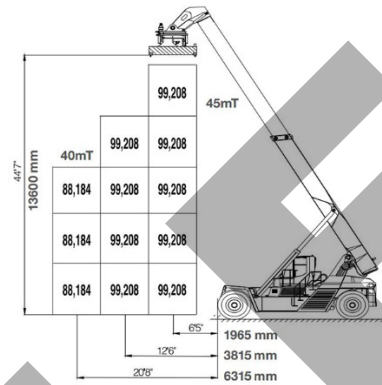


**Question 15 (PC 1.3, 3.1)**

**What things should you keep in mind when reading a load chart? List three (3).**

Answer may include but is not limited to:

- Center of Gravity
- Dynamic Nature of Load
- Flex/Deflection of Boom
- Length
- Radius of Lift
- Weight
- Articulation of reach stacker

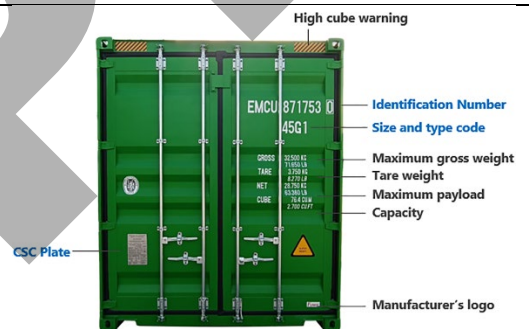


**Question 16 (PC 1.3)**

**What does the data plate on a shipping container tell you?**

Answer may include but is not limited to:

The data plate on a container typically provides information about its weight, including the tare weight (empty weight) and gross weight (weight including cargo).

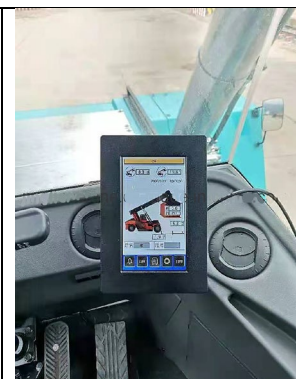


**Question 17 (PC 1.3)**

**What information will the load computer / weight scale give you? List two (2).**

Answer may include but is not limited to:

- the weight of the load
- the spreader reach
- the stability as a percentage of capacity.



**Question 43 (PC 2.1)**

**What should you consider when stacking containers? List two (2).**

Answer may include but is not limited to:

- make sure the ground is stable
- the ground is stable
- the corner castings are aligned
- the containers are stacked square
- wind conditions.



**Question 44 (PC 2.10)**

**Can you lift loads over people?**

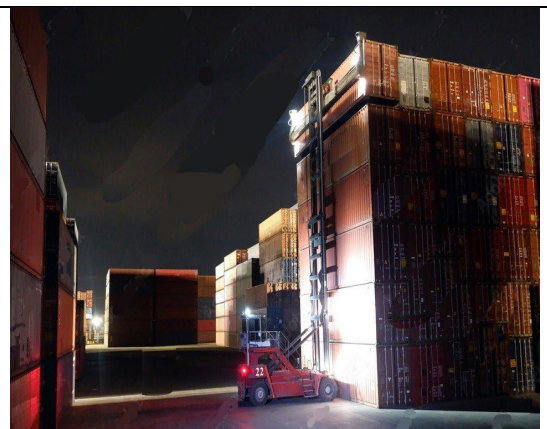
No.



**Question 45 (PC 2.10)**

**What should you do if working at night or in a darkened area?**

Make sure there is enough light.




**Question 46 (PC 2.10, 3.5)**

**What should you consider when working out the path of your reach stacker? List two (2).**

Answer may include but is not limited to:

- the distance, speed and direction of travel
- stopping others going on the pathway
- how you will communicate with the spotter / guide
- overhead electric lines
- any obstructions
- the pickup and landing sites
- the size of the reach stacker
- the mass / size of the load.




**Question 47 (PC 2.10)**


**What should you consider before you lift and travel with a container? List two (2).**

Answer may include but is not limited to:

- Weight and size of the container
- Any obstructions in the path of the container
- Visibility
- Capacity of the reach stacker.



**3. Perform work / task**




**Question 48 (PC 3.2, 3.3, 3.4)**

**What should you do when you position a container spreader over a container?**

Answer may include but is not limited to:

You need to make sure that:

- the twist locks align with the corner castings.
- you prevent damage to the container or spreader.



**Question 49 (PC 3.2, 3.3, 3.4)**

**What should you do when using a latch container spreader onto a container?**

Answer may include but is not limited to:

Align the corner castings when stacking containers because:

- the container wall may collapse if you don't.
- the corner castings provide structural support for the container.

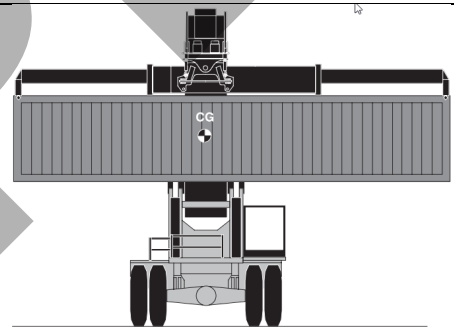


**Question 50 (PC 3.3)**

**What is the best way to handle an off-centre load?**

Answer may include but is not limited to:

The best way to handle an off centre load is to use the side attachment.

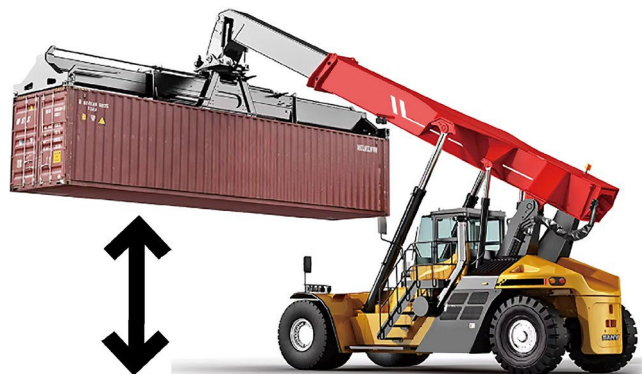


**Question 51 (PC 3.4)**

**Why should you do a test lift? Give two (2) reasons?**

Answer may include but is not limited to:

- to make sure the load is stable.
- to make sure the load is secure.
- to make sure the reach stacker is stable.
- to make sure the reach stacker's controls are working properly.
- to check that the load is the right weight.





**Question 52 (PC 3.5)**

**What could happen if you break too hard when using a reach stacker?**

Answer may include but is not limited to:

The reach stacker could tip over.



**Question 53 (PC 3.5)**

**What should you do when mobilizing a reach stacker?**

Answer may include but is not limited to:

Mobile with the boom retracted and the container not blocking the view of the operator.



**Question 54 (PC 3.5)**

**What do you need to do to travel up a slope safely? List two (2) examples.**

Answer may include but is not limited to:

- Check the rated capacity of the reach stacker.
- Operate according to the load chart / manufacture's instructions.
- watch your speed.
- Look out for ground conditions such as smooth, slippery, uneven etc.
- Have the load face up the hill.



## Score for assessments

Knowledge Assessment		
Correct answers:	_____ / _____	
Percentage:		
Result (circle):	Satisfactory	Not satisfactory
Practical Assessment		
Result (circle):	Satisfactory	Not satisfactory
Trainer/supervisor name:		
Trainer/supervisor ID:		
Signature:		



Assessor comments to clarify assessment results:

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If you have any questions about your results, speak to your trainer/supervisor.

You will receive a Statement of Attainment if your assessment is successful. You may also receive a convenient business sized card with the RTO's relevant details to keep as proof of competency.

**Certificate of Attainment**

Name \_\_\_\_\_

has successfully completed

**RII09 Resources and Industry Training Package**

Unit of competency \_\_\_\_\_

\_\_\_\_\_

Awarded on \_\_\_\_\_

Trainer/Assessor \_\_\_\_\_

Number (if applicable) \_\_\_\_\_

RTO \_\_\_\_\_

RTO Number \_\_\_\_\_