



CONSTRUCTION
Training Group

LEARNER GUIDE

Mini Loader LM

*National Guidelines for
Occupational Health & Safety
Competency Standards for the
Operation of Loadshifting &
Equipment & Other Types of
Specified Equipment*

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Guidelines for OHS Competency Standards

Loadshifting Equipment Mini Loader of a Skid Steer Type

ORAL/WRITTEN ASSESSMENT

FEBRUARY 2008

Assessor Guidelines – Specific (Knowledge Assessment)

ASSESSMENT INSTRUMENT – SPECIATIONS

The performance assessment covers the following Load shift elements:

1.1, 1.2, 1.3, 2.1, 3.1 & 3.2

1. Knowledge assessment for Mini Loader of a Skidsteer type is divided into three units and seventeen sections (performance criteria 1.1.1, 1.1.2 etc).
2. To satisfy the requirements for competency the applicant must correctly answer (either in writing or orally) the specified number of questions in each of the following sections:

Unit 1.0

1.1 Conduct routine checks

1.1.1 (select 3)

1.1.2 (select 1)

1.2 Plan work

1.2.1 (select 1)

1.2.2 (select 3)

1.2.3 (select 1)

1.2.4 (select 1)

1.2.5 (select 1)

1.3 Check controls and equipment

1.3.1 (select 1)

1.3.2 (select 1)

Unit 2.0

2.1 Shift load

2.1.1 (select 1)

2.1.2 (select 1)

2.1.3 (select 1)

2.1.5 (select 1)

2.1.7 (select 1)

Unit 3.0

3.1 Shut down equipment

3.1.1 (select 1)

3.1.3 (select 1)

3.2 Secure site

3.2.1 (select 1)

3. Prior learning and experience:

An applicant who holds a front-end loader, excavator, dragline or dozer certificate who answers questions for performance criteria 1.1.1, 2.1.2 and 2.1.5 satisfactorily is not required to complete the rest of the assessment.

4. The full knowledge assessment of twenty one questions can take up to thirty minutes.
5. The items in the shaded boxes are of critical importance. Failing to get any

of these correct means that competency has not been achieved.

6. The applicant's competence in each unit is to be summarised for both performance and knowledge on the summary sheet. Competence is achieved for a unit when the required number of boxes for that unit have been ticked or marked 'N/A'.

Overall competence is achieved when competence in all units has been assessed.

**CONDUCT ROUTINE CHECKS:
Performance criteria 1.1.1 (select 3 including 1 with a shaded box)**

1. What precaution must be taken when inspecting under a raised attachment?

Provision provided to prevent attachment descending.

2. Name three defects to look for in the hydraulic system.

Hydraulic oil leaks, loose connections, and hoses for splits, fractures or bulges,

3. Should loadshifting equipment be refuelled while the engine is running? Explain your answer.

No. The fuel could be ignited by the running engine

4. Why should you not completely fill the hydraulic storage tank?

To allow for expansion and displacement in the system

5. What problems could be indicated by bubbles or milky engine oil in the sump?

Water leaking into the sump

6. When changing the battery, which battery clamp should be removed first?

The earth battery clamp

Performance criteria 1.1.2 (select 1)

7. What would you look for to ensure that the bucket of the front-end loader of the skid steer type is securely attached to the machine?

Ensure that all moving joints are not worn and the safety pin or clips are not damaged or lost

**PLAN WORK:
Performance criteria 1.2.1 (select 1)**

8. In built-up areas what checks should be made under the ground before excavation commences?

Check for power, telephone, gas or drainage lines.

9. To establish the location of existing underground services, what would you refer to?

Supply authority or council maps.

Performance criteria 1.2.2 (select 3 including 1 with a shaded box)

10. What shall be provided to prevent a person falling into an excavation?

Barricades or guardrails and signage

11. When should an operator wear ear protection?

Where the noise could contribute to the loss of hearing

12. What is the danger of loading a truck across a sloping surface?

The loader could overturn.

Performance criteria 1.2.3 (select 1)

13. Which is the safest route of travel, diagonally across or directly down sloping surface?

Directly down the sloping surface.

14. For suitability which direction and how should a rubber tyred skid steer loader be driven up a steep ramp onto a truck?

Slowly with the rear of the machine facing up the ramp and bucket low

Performance criteria 1.2.4 (select 1)

15. What would you be required to obtain from the Relevant Authority to operate a machine in a hazardous working area?

The required permits.

16. What must be obtained to drive unregistered rubber tyred loadshifting equipment along a public road?

An unregistered vehicle permit or other document required in jurisdiction as applicable

Performance criteria 1.2.5 (select 1)

17. Why would you select a loader of a skid steer type instead of a conventional front-end loader to work in a small confined space?

Because of the manoeuvrability of the machine.

18. Name three operations which a clam type bucket (4in 1 bucket) is designed to perform.

Scooping up a load, carrying a load, picking up an object, levelling a surface etc.

CHECK CONTROLS AND EQUIPMENT:

Performance Criteria 1.3.1 (select 1)

19. On the post start-up check you notice a bulge from in a hydraulic hose. What action would you take?

Switch off the machine and have the hose replaced.

20. When should testes, checks and inspections be made by the operator on the loadshifting equipment that is to be operated?

Daily before use.

Performance criteria 1.3.2 (select 1)

21. What action would you take with damage and defects found on the machine?

Report the damage and defects to authorised person and ensure safety is not jeopardised.

SHIFT LOAD:

Performance criteria 2.1.1 (select 1)

22. Is it permissible to hoist persons with the bucket of loadshifting equipment?

No, its an unsafe work practice

Performance criteria 2.1.2 (select 1)

23. What is the approximate weight of a cubic metre of wet sand?

1.5 tonnes

24. of top soil or clay which is more cohesive and harder to excavate, push and spread?

Clay.

Performance criteria 2.1.3 (select 1)

25. Why should the seat belt be worn or the pull down bars be in place before operating the machine?

So that the operator cannot be bounced out of the machine while operating

Performance criteria 2.1.5 (select 1)

26. Applicant to state the meaning of the hand signal for "stop" demonstrated by the assessor.

Stop

Performance criteria 2.1.7 (select 2)

27. If a hydraulic hose sprung a leak when a loaded bucket was raised what action would you take?

Lower bucket and have repairs carried out.

28. If the machine contacted a live power line which could not be released or the power turned off, how would you dismantle the machine?

Jump clear ensuring contact with the ground and machine is not at the same time.

**SHUT DOWN EQUIPMENT:
Performance criteria 3.1.1 (select 1)**

29. Name three areas where you would not park the Mini Loader of a Skidsteer type

Access ways, near overhangs, refuelling sites, tidal or flood areas, adjacent to an excavation.

30. Before leaving the controls of the machine what should be done with all hydraulically raised attachments?

Attachments lowered and pressure removed from hydraulic lines.

Performance criteria 3.1.3 (select 1)

31. What post-operational checks should be carried out by the operator on the loadshifting equipment to prepare it ready to be reoperated?

Check the structure and equipment for defects and wear and the oil, fuel and water levels.

**SECURE SITE:
Performance criteria 3.2.1 (select 1)**

32. What shall be provided when a Mini Loader of a Skidsteer type has to be parked on or protrudes onto an access way?

Barricades, lights and signs.

33. For what reason should the key be removed from the ignition of the machine?

To prevent unauthorised movement.

34. Before leaving the site what must be provided to restrict access to the site?

Barricades or fences.

Unit	Form of assessment	Total number of boxes in the assessment	Number of boxes given or NA	Number of boxes required to meet standard	Were all critical boxes given or NA?		Assessment standard requirements achieved *		
					Yes	No	Yes	No	
1	Performance	33		29	Yes	No	Yes	No	
	Knowledge	13		8	Yes	No	Yes	No	
	Assessment completed within time allowed							Yes	No
2	Performance	31		28	Yes	No	Yes	No	
	Knowledge	5		3	Yes	No	Yes	No	
	Assessment completed within time allowed							Yes	No
3	Performance	11		9	Yes	No	Yes	No	
	Knowledge	3		2	Yes	No	Yes	No	
	Assessment completed within time allowed							Yes	No

*Performance standard

= Number of items required to meet standard (including all critical boxes)

Knowledge standard

= Number of questions required to meet standard (including all critical boxes)

Summary

Candidate is:

COMPETENT

NOT YET COMPETENT

Date: _____

Name of Assessor: _____ Signature: _____

Name of Candidate _____ Signature: _____

Comments/feedback:
