



CONSTRUCTION
Training Group

LEARNER GUIDE

Conveyor Belt Tractor CBT

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*For the prescribed occupation of Conveyor Belt
Tractor Operator which is not included in the
scope of National Guidelines of Occupational
Health & Safety Competency Standards for the
operation of load shifting equipment and other
types of specified equipment
[NOHSC:7019(1992)]*

Assessor Guidelines – Specific (Performance Assessment)

ASSESSMENT INSTRUMENT – SPECIATIONS

The performance assessment covers the following Non Loadshifting elements:

1.1, 1.2, 1.3, 2.1, 3.1 & 3.2

1. Oral/written assessment for Conveyor Belt Tractor is divided into three units and nineteen 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) all critical questions as indicated by a shaded box and a minimum of 75% of the non-critical questions from each unit.

Assessor note: The assessment summary specifies the appropriate number of non-critical questions to be achieved.

Unit 1.0 Conduct Routine checks

- 1.1 **Conduct routine checks**
Select 9 including 5 shaded boxes
- 1.2 **Plan work**
Select 12 including 5 shaded boxes
- 1.3 **Check controls and equipment**
Select 3 including 2 shaded boxes

Unit 2.0 Operate Tip Truck

- 2.1 **Drives Unit to Work Area**
Select all 4 shaded boxes
- 2.2 **Load, Transport and Discharge**
Select 13 including 7 shaded boxes

Unit 3.0

- 3.1 **Shut down equipment**
Select 3 including 2 shaded boxes
- 3.2 **Secure site**
Select 1

4. The full oral/written assessment of eighty questions can take up to 1 hour to complete.
5. The items indicated by a shaded box are of critical importance. Failing to get any of these correct means that competency has not been achieved.
6. Competence is achieved for a unit when the required number of boxes for that unit have been ticked or marked correct.

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

CONDUCT ROUTINE CHECKS
(Select 9 from Q1-16 including 5 with shaded boxes)

1. What precautions must be taken when an inspecting under a raised body or work has to be performed near a crush point?

Locate and use safety prop to prevent hopper from descending.

2. What should be the first check of your Conveyor Belt Tractor at the start of your shift?

Walk around machine and look for visual damage.

3. What should be provided on the Conveyor Belt Tractor to prevent the operator from being dislodged from the seat of the Conveyor Belt Tractor?

Seat Belt

4. What warning device should function on the Conveyor Belt Tractor (if applicable) to warn personnel of travelling or about to travel in reverse?

A reverse alarm/beeper

5. If an air system were installed on the Conveyor Belt Tractor what daily action would you take with condensation in the air receiver?

6. Name three defects that you would look for when conducting a routine check on the hydraulic system of the Conveyor Belt Tractor?

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

7. What problem bubbles or milky engine oil in the sump could indicate?

Water leaking into the sump

8. Why shouldn't the hydraulic oil storage tank be filled above the full mark?

Space in the tank is needed for displacement in the system

9. When changing a battery which battery clamp should be removed first?

Earth

10. Name five pre-operational checks that should be carried out on the Conveyor Belt Tractor before it is started?

Radiator, battery, fuel, oil, hydraulic line, tyres

11. How should you remove the radiator cap of a Conveyor Belt Tractor that has not completely cooled off?

Slowly loosen cap to release pressure and then slowly remove cap

12. How should you establish that pre-start checks have been carried out?

Check operators logbook

13. Why shouldn't tyres pressure be checked on warm/hot days?

Tyre pressures are increased due to the heat

14. How would you establish the service and the frequency of the service to be carried out on the Conveyor Belt Tractor you are required to operate?

By the service manual provided

15. What faults on the Conveyor Belt Tractor tyres would you look for when carrying out checks?

Cuts, tyre pressure, wheel nuts and chucks of rubber missing

22. If you accidentally damaged an electrical cable whom would you immediately contact to render the power supply safe?

The electrical supply authority

16. To establish if the required service has been conducted, what document would you refer to?

The log/service book

23. What is the danger of travelling near the edge of a fill? List two

The Fill may collapse, Conveyor Belt Tractor may tip or roll over, injury to operator

1.2 Plan Work
(Select 4 from 17-23 including 3 with shaded boxes)

17. What hazards would you look for and avoid to establish the most appropriate route to travel?

Sloping, soft or tough terrain, obstructions such as trees, stumps or rocks and underground services

(Select 3 from Q24-28 including 1 with a shaded box)

24. What should be provided to prevent a person falling into a trench or excavation?

Slings & barricades

18. What would you refer to in order to establish the location of underground services?

Supply authority or council maps

25. How should the flow of road traffic be controlled where signs and barricades are considered inadequate to control a potential hazard?

By traffic controller or by police

19. Before carting to the work area what action would you take with a rutted, rough or pitted hauling route?

Reduce speed, contact supervisor re grading

26. When should ear protection be worn?

Where the noise could contribute to the loss of hearing

20. Why should side hill travel be avoided where possible?

The tip truck may roll over

27. When should a person wear a safety helmet?

Where the person could be struck on the head

21. What effect would a rough surface have on the operating speed of the Conveyor Belt Tractor?

It would decrease the safe speed and decrease productivity

28. What is the minimum type of footwear that an operator should wear to operate a Conveyor Belt Tractor?

Non slip footwear, steel cap boots

(Select 2 from 29-30 including 1 with a shaded box)

29. Which is the preferred route of travel, diagonally across or directly down a sloping surface?

Directly down the sloping surface

30. What gear should be selected to travel down a steep sloping surface?

Lowest gear selected

Tend to be unstable with body raised

37. What should be provided on a Conveyor Belt Tractor if there is chance of tip/roll over?

ROPS and seat belt

**1.1 CHECK CONTROLS AND EQUIPMENT
(Select 3 from Q38-41 including 2 with shaded boxes)**

38. What actions would you take with damage and defects found on the Conveyor Belt Tractor?

Report damage or defects. Refrain from operating if a danger exists, take keys and place tag on machine

39. That controls would you test to ensure that the Conveyor Belt Tractor could be slowed and stopped?

The brake controls

40. On the post start up check you notice a bulge form in an air line/hydraulic lines. What action would you take?

Switch off the machine, remove keys, tag out machine, report to your manager/foreman

41. When should the operator on the Conveyor Belt Tractor that is to be operated make tests, checks and inspections?

Before and after every use

**2.1 DRIVE UNIT
(Select all-Q42 to 45)**

42. Applicant to state the meaning of the hand signal of "stop" demonstrated by the examiner.

Stop

(Select 1 from Q31-33)

31. In hazardous working areas where permission is required to work what must the operator ensure before the work is commenced?

That the required permits have been obtained

32. What is required to be obtained before an unregistered Conveyor Belt Tractor is driven along a public road?

An unregistered vehicle permit

33. What should be done if a major fault is found during pre start check?

Machine must be stopped, secured, keys removed, lock out tag fitted, recorded in log book and reported to employer.

(Select 3 from 34-37)

34. How would you establish the capabilities and limitations of the equipment?

From the manufacturers manual

35. Name two main components in the engine drive train?

Engine, Diff, gearbox

36. What is the main disadvantage of articulated Conveyor Belt Tractor?

43. Why should you stay in the cabin when being loaded?

So loader operator knows where you are and for your own safety

44. Why is it a good idea to have someone guide you when using a Conveyor Belt Tractor?

Someone guiding you with your driving will ensure that you have good vision and they will see any hazards that you may not see.

49. With a Conveyor Belt Tractor, Why is it important to keep tipping areas clear?

Loose or out of control materials may fall from tipping area causing serious injury or death.

45. During fire season why should you have a fully charged knapsack or extinguisher on your Conveyor Belt Tractor?

In case of an emergency that involves fire. If safe to do so, you may be able to assist in putting out the fire.

50. Before reversing a Conveyor Belt Tractor what precautions should be taken?

Ensure direction of travel is clear

51. Why is it important to keep a good look out while using a Conveyor Belt Tractor?

Conveyor Belt Tractors are designed to be bulky and compacted, therefore vision can be obscured at time. By keeping a good look out, it ensures that any hazards are identified.

2.2 LOAD, TRANSPORT & DISCHARGE
(Select 2 from Q46-51 including 2 with shaded boxes)

46. Why is it important to keep all body parts away from moving conveyor belts?

If any body parts were to become entangled with moving parts, this would cause serious injury or death.

(Select 11 from 52-66 including 5 with shaded boxes)

52. What is the danger of slipping tyres on shale or rock?

Tyres may be cut

47. How would you dismount from a Conveyor Belt Tractor that contacted live power lines?

Jump clear of machine, shuffle away using heel to toe method for 15m and keep area clear

53. Would you coast the Conveyor Belt Tractor downhill?

No

48. When travelling what would you do before travelling down a steep grade?

Reduce speed and select appropriate gear for the grade. Use retarder if fitted

54. In addition to service brakes, for what purpose is a retarder fitted to?

Control the speed of the Conveyor Belt Tractor on downgrades instead of the service brake

55. What effect does fanning the brake control instead of a firm

application of the brake control have on the air pressure for the brakes (If Air Tanks are fitted)?

Fanning may exhaust the pressure faster than the compressor can replace it

63. Why should sudden steering or severe braking actions be avoided on sloping ground when operating sand belt conveyor tractor?

The vehicle could tip or roll over

56. Whos responsibility is it for safety at the job site?

Everyones on the job

57. Why is it important to place the Conveyor Belt Tractor directly under the loading unit's bucket?

To ensure correct even loading and minimise spillage

58. Why must caution be shown when travelling on sloping ground with a Conveyor Belt Tractor? Explain you answer.

Machine may tip over.

59. Explain why empty Conveyor Belt Tractors must give way to loaded plant?

Empty tractor has better breaking and manoeuvrability

60. Why is it important to obey the directions given by a Spotter?

The spotter has better ground vision

61. What aids can be used to guide the sand belt conveyor tractor operator when working near a bank or overhead wires? List two.

Safety Barriers, Spotters, tapes, Guide Posts

62. Why are engine parts fitted with covers?

To ensure no one can access dangerous areas unless they are competent to do so.

64. If the brakes (including holding emergency brake) failed while travelling downgrade what action would you take to stop the Conveyor Belt Tractor?

Take evasive action by running the vehicle into a drain batter or soft area if possible.

65. As an operator would you leave an unattended sand belt conveyor tractor engine running?

No

66. What precaution must be taken when loading on a side slope?

Ensure angle will not affect the machines satiability.

3.1 SHUT DOWN EQUIPMENT
(Select 3 from Q67-71 including 2 with shaded boxes)

67. Name the areas where you would not park the sand belt conveyor tractor?

Access ways, rear overhangs, refuelling sites, tidal flood areas, adjacent excavations, on roads

68. Which direction should the sand belt conveyor tractor face if it has to be parked on a sloping surface?

Across the slope

69. Where possible what type of surface should be selected to park the sand belt conveyor tractor on?

A level slope

70. Is it permissible to park a sand belt conveyor tractor on the job area?
Explain why or why not.

No. May cause hazard

71. What post-operational checks should the operator of a sand belt conveyor track carry out to prepare it ready to be reoperated?

Check structure and equipment for defects and wear.

3.2 SECURE SITE
(Select 1 from Q72-73)

72. For what reason should the key be removed from the ignition of the truck?

To prevent unauthorised movement

73. What shall be provided when a Sand Belt Conveyor Tractor has to be parked on or protrudes onto an access way?

Barricades, triangles lights and signs

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	17		28	Yes	No	Yes	No	
	Knowledge	12		12	Yes	No	Yes	No	
	Assessment completed within time allowed							Yes	No
2	Performance	11		13	Yes	No	Yes	No	
	Knowledge	11		6	Yes	No	Yes	No	
	Assessment completed within time allowed							Yes	No
3	Performance	5		3	Yes	No	Yes	No	
	Knowledge	2		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:
