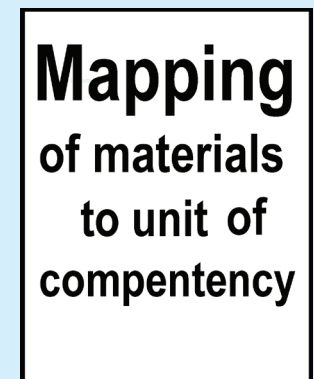
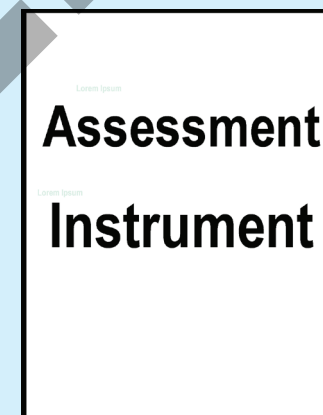
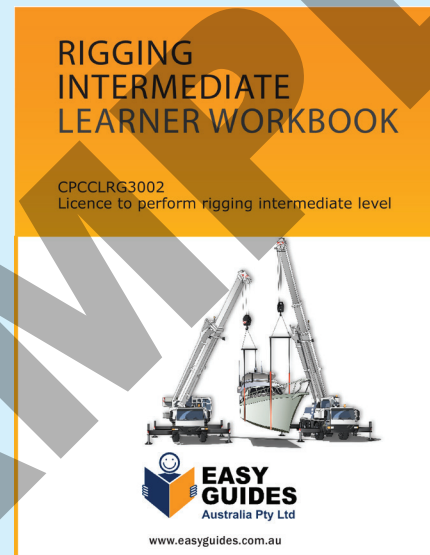


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# LEARNER GUIDE



# Rigid Haul Truck

TICKET



Training support material for:

RIIMPO338E

Conduct rigid haul truck operations

Produced by:



# Contents

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# Introduction to Rigid Haul Truck



## Introduction to rigid body haul truck

This guide covers rigid body haul trucks. A haul truck is a machine you use to carry materials from one place to another. You can load a haul truck with a number of machines including excavators and loaders.

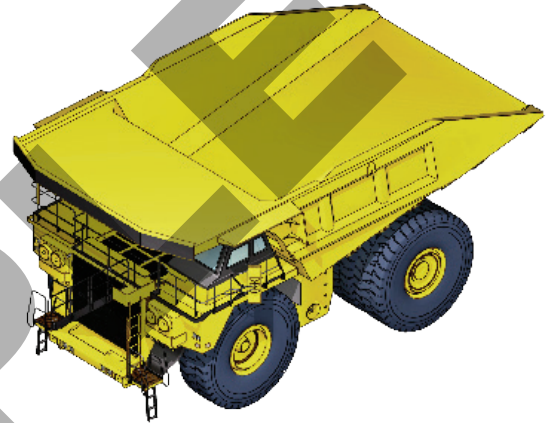
The large mining haul trucks can weigh over 500 tonnes. Rigid haul trucks covered in this guide are off-highway trucks such as diesel-mechanical, diesel electric and rigid body.

Rigid haul trucks have a rigid body.

**Rigid** for this truck means:

The chassis does not articulate.

The truck is steered by the front wheels pivoting on each end of the front axle, similar to the steering of a family car.



## What industries do you use a rigid haul truck in?

- Civil construction
- Coal mining
- Extractive industries
- Metalliferous mining



## Confined space

A confined space is an enclosed or partially enclosed area. It is an area that was not designed for people to go into. It may have no natural or mechanical ventilation. It also has a hazard (such as a gas or flammable substance) that makes it dangerous.

Gasses in the atmosphere such as LPG, which are heavier than air, may enter spaces like trenches, underground tanks or pits displacing oxygen.

When you drive a petrol, gas, or diesel machine into a space like this you create a hazard. The exhaust gasses can fill the space. Dangerous gasses like carbon monoxide can build up in the area. You can't smell all dangerous gasses or fumes. You might breathe in a dangerous gas and not even know it. The gas could knock you out (make you unconscious) or even kill you.

You must be trained to work in a confined space.

You must also have a permit. The permit makes sure you have thought about all hazards and controls, including a rescue plan, and that you have a team there to help you in case something goes wrong. You must get your permit approved by a supervisor.

If you are going to work in a confined space, you might need a catalytic converter installed. A catalytic converter takes out harmful gasses (like hydrocarbons, carbon monoxide and nitrogen oxides, and turns them into harmless gasses (like carbon dioxide, water and oxygen).





**QUESTION 46**

When operating a haul truck on a job site you need to plan the operations with other equipment.

Why?

To prevent lost time waiting for a clear road.



To maintain a safe operating distance between machines.



...CONTINUES ON NEXT PAGE



# Operate rigid haul truck

## Element 2



**QUESTION 49**

What is the first check you do on the machine?

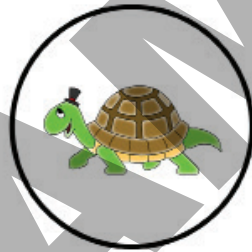
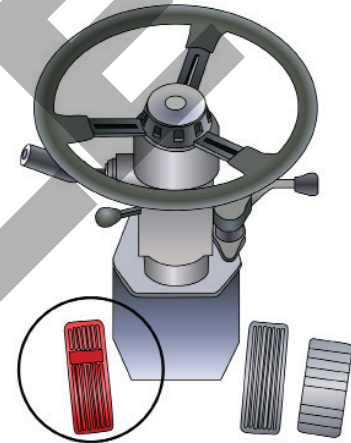
Walk around it and check for obvious problems you can easily see.



**QUESTION 59**

How do you test the retarder operation?

Drive the truck forward at about 10 kph and engage the retarder. This should slow the truck down quickly.



**QUESTION 60**

If all of the brakes on the haul truck fail, how can you stop the truck?

Change to a lower gear to slow down. Drive the haul truck into a ditch, soft area, gutter or up a ramp or embankment if you can.

You only do this in an **emergency** when you have **no** other choices.



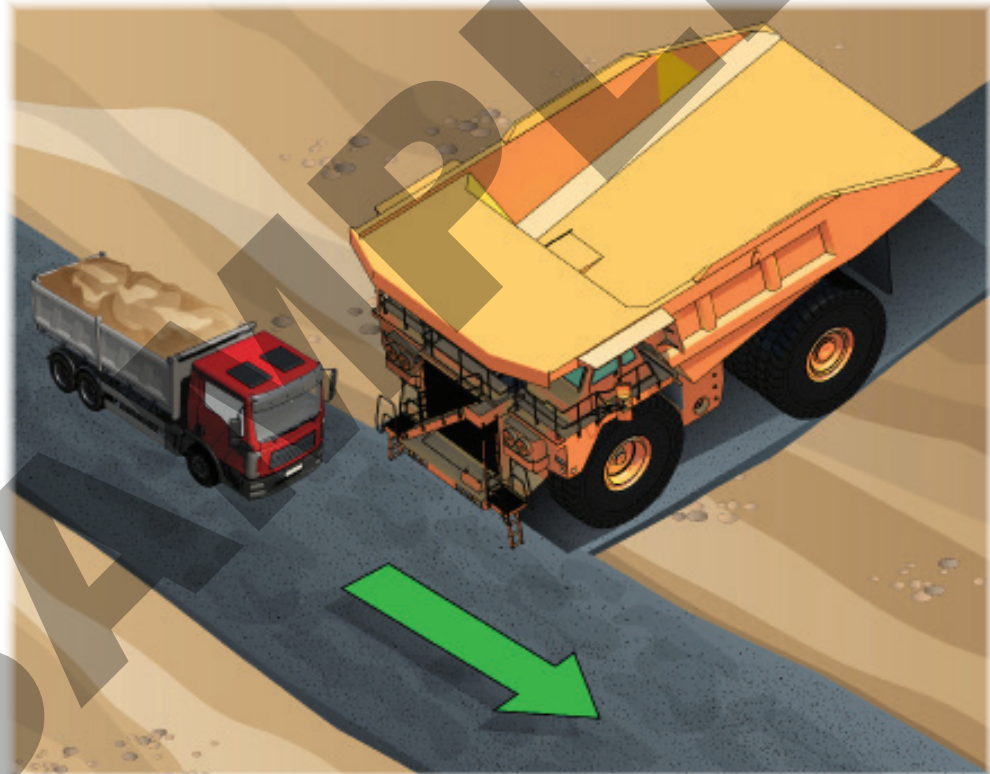
**QUESTION 64**

Your truck is empty.

Why do you have to give way to loaded trucks and scrapers?

Because you can stop and turn your empty truck more easily.

This is because loaded trucks are heavier than unloaded trucks, so it takes longer for them to stop.

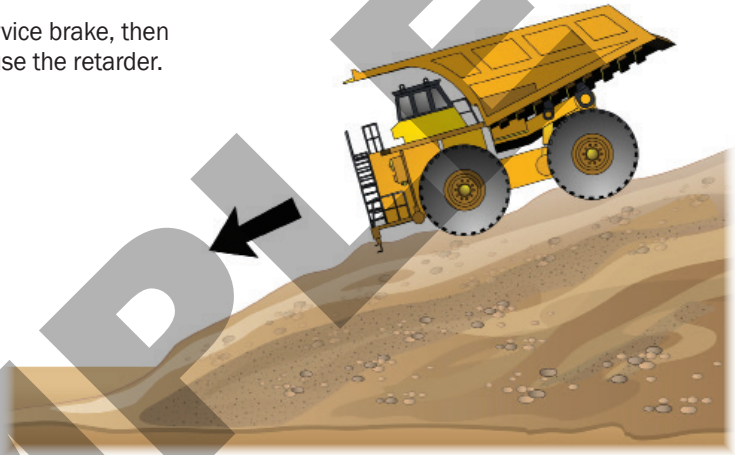


**QUESTION 65**

You are heading towards a steep slope.

What would you do before going down the slope?

Slow down using the service brake, then choose a low gear and use the retarder.

**QUESTION 66**

Which gear do you use on a steep slope?

Use a low gear.





**QUESTION 67**

Which way do you travel down a slope, across or straight down?

Travel straight down the slope.

You might use the retarder to help control the speed of the haul truck.

**QUESTION 68**

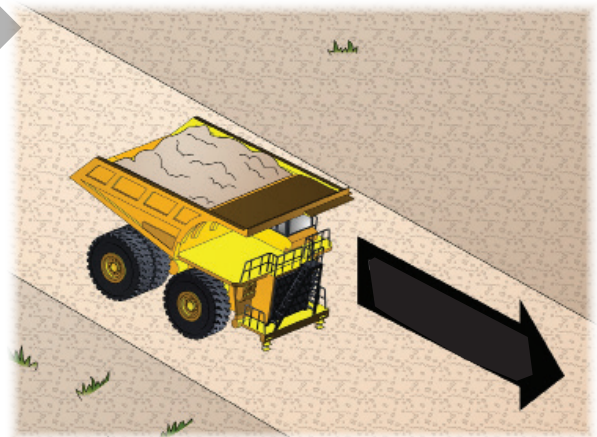
When would you choose a rigid haul truck?

You choose a rigid haul truck when you'll have a heavier or larger load.

You use a rigid haul truck for hauling loads up to 267 cubic metres in size.

Rigid haul trucks are faster than articulated haul trucks. They are best on flat roads for long hauls.

Check the site procedures to find out the maximum speed limit on your site.





**QUESTION 69**

How can you keep a haul truck stable?

Keep the truck from areas where it could tip over.



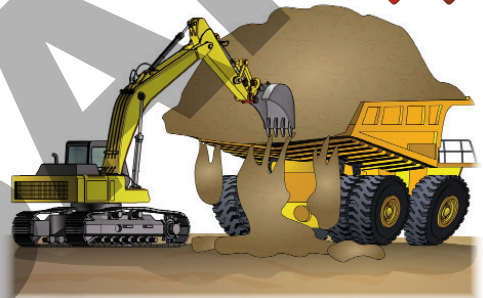
Don't dump while the truck is on a slope.



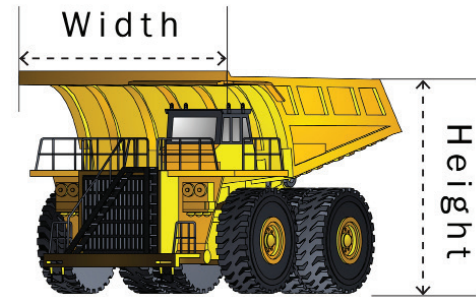
**QUESTION 70**

What are some things to remember when operating a haul truck?

Don't overload the truck. Keep within the SWL/maximum capacity.



Know the height and width of the truck.



# RIGID HAUL TRUCK

# Learner Workbook (Formative assessment)



# STUDENT COPY

RIIMPO338E – Conduct rigid haul truck operations



Learner Name: \_\_\_\_\_

Student Number: \_\_\_\_\_ Date: \_\_\_\_\_

This resource was developed by:



# Contents

Contact Details.....	2
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Loading equipment that might be used to load a haul truck .....	<b>Error! Bookmark not defined.</b>

## Knowledge Assessment




The assessor must be satisfied the candidate has successfully demonstrated each element and performance criteria contained in the Unit of Competency.

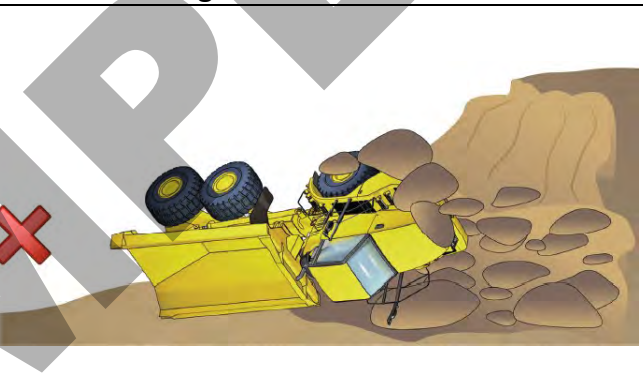
## Knowledge Assessment Instructions




1. This assessment should be completed in writing (pen not pencil). However, where necessary it may be undertaken verbally. If verbal assessment is undertaken the candidates' responses must be clearly recorded by the assessor. The assessor must clearly note on the assessment that it was undertaken verbally.
2. Candidates should be allowed 10 minutes reading time before commencing the assessment and a further 180 minutes to complete the assessment.
3. The assessment should be completed in a quiet area free from distraction.
4. The assessment is to be completed without the assistance of learning resources. Students may ask the assessor for assistance to clarify questions they do not understand.
5. A pass mark of 90% (77/85) must be achieved for a satisfactory result. The assessor must provide feedback to the candidate to clarify any answers deemed to be incorrect.
6. Reasonable adjustment to the assessment is to be made by the assessor where deemed necessary.



<b>Question 29</b>	<b>PC (1.3)</b>
<b>What does the traffic management plan (TMP) tell you?</b>	
	

<b>Question 30</b>	<b>PC (1.3, 2.5)</b>
<b>What is the danger of driving next to a trench or the edge of a fill?</b>	
	

<b>Question 31</b>	<b>PC (1.3, 2.5)</b>
<b>What is the danger of working when it is dark or difficult to see?</b>	
	

**Question 58**

**PC (2.1, 2.4)**

**You've done the pre-operational checks. Before you can move off, what else do you need to do?**

Blank area for the answer to Question 58.

**Question 59**

**PC (2.2)**

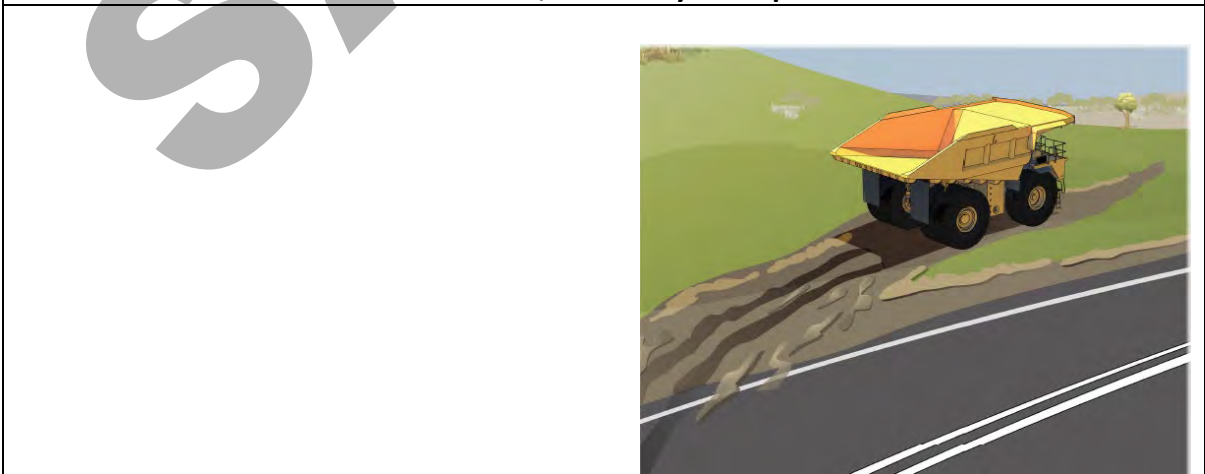
**How do you test the retarder operation?**



**Question 60**

**PC (2.5)**

**If all of the brakes on the haul truck fail, how can you stop the truck?**

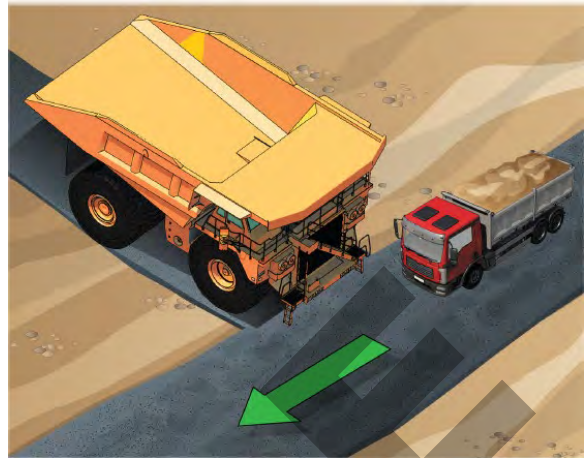




**Question 64**

**PC (2.3)**

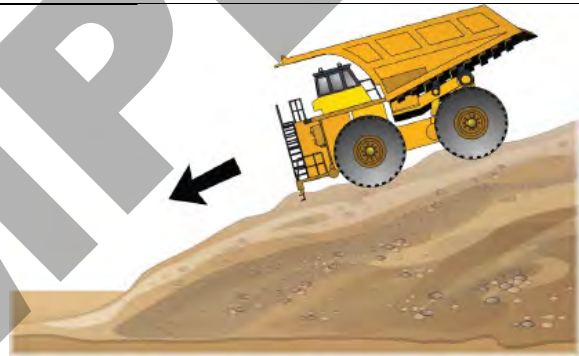
**Your truck is empty. Why do you have to give way to loaded trucks and scrapers?**



**Question 65**

**PC (2.4)**

**You are heading towards a steep slope. What do you do before going down the slope?**



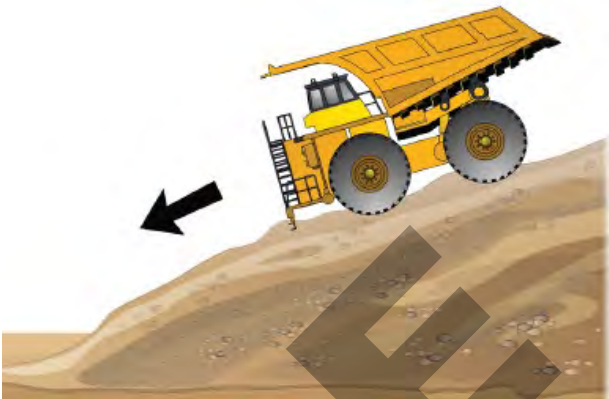
**Question 66**

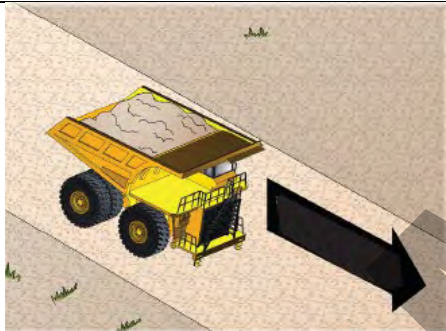
**PC (2.4)**

**Which gear do you use on a steep slope?**





<b>Question 67</b>	<b>PC (2.3, 2.5)</b>
<b>Which way do you travel down a slope, across or straight down?</b>	
	

<b>Question 68</b>	<b>PC (2.3, 2.5)</b>
<b>When would you choose a rigid haul truck?</b>	
	

<b>Question 69</b>	<b>PC (2.3, 2.5)</b>
<b>How can you keep a haul truck stable?</b>	

## Practical Assessment



The assessor must be satisfied the candidate has successfully demonstrated each element and performance criteria contained in the Unit of Competency.

It is the assessor's responsibility to decide if the candidate has competently demonstrated a skill. The assessor may question a candidate further if their demonstration needs clarification.



## Practical assessment instructions



Practical assessment should be performed in a normal working environment where possible. However, under some circumstances may occur in a simulated work environment (refer to assessment conditions for further information).

The Assessor must:

- Clearly explain to the candidate what is expected of them
- Check that the candidate has been provided with the necessary tools and equipment
- Complete checklists as the candidate goes through the tasks
- Only question a candidate during a practical task if it is safe to do so
- Stop the assessment immediately if the candidate is doing something dangerous
- Stop the assessment immediately if the machine or objects are likely to be damaged
- Inform the candidate of the result of the assessment

If an assessor needs to stop the assessment because of danger or possible damage, the candidate must be marked as not yet competent. If the assessment is stopped, further training would need to take place before a re-assessment can be undertaken.

Tasks in the assessment do not have to be assessed in isolation, they may be done as one continual task, a simple example of this may be to:

*Ask the candidate to perform the **pre-start** requirements, when complete they should **drive** the rigid haul truck to an area where they can **operate** it to **excavate a trench** to pre-determined **specifications** and **stockpile** the removed material. On completion of the trench the candidate could then **backfill** and compact the trench. Next they could drive the rigid haul truck to the attachment storage area, **remove the current attachment** and **fit a new attachment** for example a lifting device. They could then **lift and carry materials** as specified by the assessor. On completion the lifting device could be removed and the original attachment re-fitted. Now the candidate will be required to complete any **housekeeping** requirements then **prepare the rigid haul truck for relocation** and **move the rigid haul truck between worksites**. If the scenario above was completed twice it should meet the requirements as long as two different material types are used.*

**Note:** When performing the practical tasks, the assessor may video the applicant. The location of where the video is stored must be noted so that it can be located when needed.

## Practical Assessment – Check List

The skills and knowledge required to operate a rigid haul truck to load, distribute and place materials, work must be performed on at least two occasions.

**Note** See appendix for guidelines on what to look out for when candidate is performing practical tasks. Use the Appendix topic steps as basic benchmark guides.

### Practical Assessment 1 – Pre-Start



Observation performed when performing Practical Task 1 from work order provided (Job 1, Job 2)	Yes	No	N/A	Job 1	Job 2
Candidate:					
Located and apply relevant documentation, policies and procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Locates operator's manual for rigid haul truck and finds requirements for pre-start and start-up checks.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Locates site policies and procedures for personal protective equipment requirements when operating rigid haul truck.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Candidate displays preparedness for emergency situations by outlining the steps to be taken in the case of a fire or accident.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Interrupt work order or requirements before performing work task.				<input type="checkbox"/>	<input type="checkbox"/>
Selected and wear personal protective equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> PPE selected must be as per site policies and relevant to the task. As a minimum MUST include appropriate footwear, Hi-visibility workwear and hard hat.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PPE must be checked for serviceability and correctly fitted.				<input type="checkbox"/>	<input type="checkbox"/>
Conducted pre-start inspection of rigid haul truck.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Pre-start check is carried out as per operators manual and workplace policies and procedures. Where possible a completed pre-start checklist should be provided as supporting evidence.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> During inspection the candidate must identify and/or verbalise any common faults they are looking for.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Faults and/or damage found during inspection must be managed as per workplace policies and procedures. This should include, tagging out faulty equipment, isolating faulty equipment, reporting to the appropriate person and recording in a logbook. If no faults or damage are found the candidate must verbalise the procedure for the worksite to the assessor.				<input type="checkbox"/>	<input type="checkbox"/>
Carried out vehicle refuelling requirements and procedures where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Candidate must refuel the rigid haul truck when necessary. The candidate must refer to workplace policies and procedures for refuelling.				<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> The correct PPE for refuelling must be selected and worn during the refuelling process.				<input type="checkbox"/>	<input type="checkbox"/>

**The applicants' performance in Practical Assessment 1 – Pre-Start activity was deemed to be:**

Satisfactory

Not yet satisfactory

**Applicant signature:**

**Date:**

**Trainer/assessor signature:**

**Date:**

# Rigid Haul Truck

## Record of Training Logbook / Verification of competency (VOC)



**RIIMP0338E**  
Conduct rigid haul truck operations



# Contents

---

Operator, employer, supervisor and training details .....	(i)
Purpose of this logbook .....	1
How to use this logbook .....	2
Sample pages .....	3
Plan and prepare for rigid haul truck operations.....	5
Operate rigid haul truck in line with established requirements.....	5
Load, haul and dump materials to complete work activity.....	5
Conduct housekeeping activities.....	5

# Purpose of this logbook

---

This logbook is to record on-the-job training. This logbook can be used in two ways:

## **1. A company doing in-house training**

A company can use this training logbook to show they have met their duty of care obligations under the WHS Act by showing evidence that an operator is trained and competent.

## **2. A registered training organisation (RTO)**

A registered training organisation (RTO) delivering the units of competency from the RII Resources and Infrastructure Industry Training Package can use this logbook as part of a training program to gain a qualification.

### **Supervision by a competent person**

The person supervising the operator must be deemed competent to supervise the training. The supervisor/trainer may hold an existing earthmoving licence or qualification, may have a Certificate IV in Workplace Training and Assessing, may have on the job experience gained over time, or any or all of these.

### **Using the logbook for verification of competency (VOC)**

As well as being a record of training, this logbook can also be used as a document to record verification of competency.



# How to use this logbook

---

1. Fill out the details at the start of this logbook – operator's name, address etc.
2. Wear the personal protective equipment (PPE) you need to wear.
3. After you have finished working, you can start filling out your logbook. Start by writing down the work you have done.
4. Make sure you fill in each section of your logbook. Your supervisor will sign the supervisor section if s/he believes the details are correct and the tasks have been completed in a satisfactory way.





Element/Work tasks	Description of work/training performed
<p><b>PC 1.3</b></p> <p><b>Hazards and environmental issues</b></p> <p>Identify hazards and environmental issues, and implement control measures in line with workplace policies</p>	<p><i>Checked site. Spoke to sight manager. I had to move a stockpile of topsoil. A front-end loader was used to load the truck. I used a tarp to secure load and stop any dirt falling off.</i></p>
	<p><i>Before starting the job I checked the area for hazards. I noticed a trench that did not have any barricades around it so I put barricades around the trench. I noticed that I would be working near powerlines on poles. I didn't have a spotter so I made sure the path I would travel was at least 6 metres away from the powerlines.</i></p>
	<p><i>I had to load the haul truck near a trench. The trench was 2 metres deep. I made sure I was more than 2 metres away from the trench. I put the truck in the correct position for loading. I stayed in the cabin while the body was being loaded. When the tray was full I made sure the area was clear of other vehicles before I moved off.</i></p>

Date/time	No. of hours	Machine details	Supervisor/competent person
Date: <i>19 / 09 / 2020</i> Start time: <i>11.30</i> am ..... pm	<i>20 minutes</i>	Make: <i>Caterpillar</i> Model: <i>785D OEM</i> Serial No: <i>26800741</i>	Name: <i>Nathan Deeman</i> Signed: <i>Nathan D</i> Experience/qualifications: <i>20 years on-the-job experience and Cert IV</i>
Date: <i>23 / 09 / 2020</i> Start time: <i>9.00</i> am ..... pm	<i>20 minutes</i>	Make: <i>Caterpillar</i> Model: <i>785D OEM</i> Serial No: <i>26800741</i>	Name: <i>Nathan Deeman</i> Signed: <i>Nathan D</i> Experience/qualifications: <i>20 years on-the-job experience and Cert IV</i>
Date: <i>25 / 09 / 2020</i> Start time: ..... am <i>1.15</i> pm	<i>30 minutes</i>	Make: <i>Caterpillar</i> Model: <i>785D OEM</i> Serial No: <i>26800741</i>	Name: <i>Sam Hasseron</i> Signed: <i>S.H.</i> Experience/qualifications: <i>Cert IV in Training and Assessing and RII RTO Statement of Attainment in Rigid Haul Truck</i>

# Element 1

## **Plan and prepare for rigid haul truck operations**



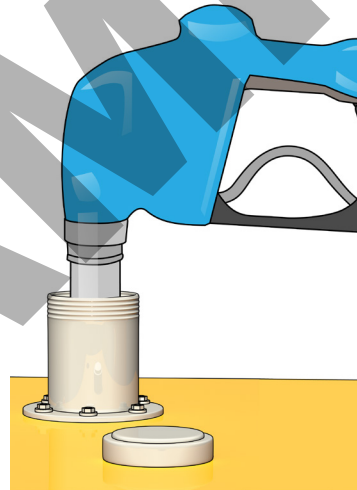
Element/Work tasks	Description of work/training performed
<p><b>PC 1.1</b></p> <p><b>Rigid dump truck documentation</b></p> <p>Access, interpret and apply conducting rigid dump truck documentation</p>	

SAMPLE

Date/time	No. of hours	Machine details	Supervisor/competent person
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... ..... .....
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... ..... .....
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... ..... .....

## Element 2

**Operate rigid haul truck in line with established requirements**



Element/Work tasks	Description of work/training performed
<p><b>PC 2.1</b></p> <p><b>Prestart and start-up checks</b></p> <p>Carry out prestart and start-up checks in line with workplace procedures</p>	

SAMPLE



Date/time	No. of hours	Machine details	Supervisor/competent person
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... .....
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... .....
Date: ..... ..... Start time: ..... am ..... pm		Make: ..... Model: ..... Serial No: .....	Name: ..... Signed: ..... Experience/qualifications: ..... .....

# Element 3

## **Load, haul and dump materials to complete work activity**



# Mapping Tool

## RIIMPO338E Conduct rigid haul truck operations

Note: This completed document shows that the enclosed learning materials have been mapped against the Unit of Competency.

### Legend

PC	Performance Criteria
PE	Performance Evidence
KE	Knowledge Evidence
AC	Assessment conditions

### Range statement

This is a rigid haul truck.

It can operate on a variety of surfaces and is either 4 or 6 wheel drive which makes it suitable for softer surfaces, light mud and wet areas

### Application of unit

This unit describes a participant's skills and knowledge required to conduct rigid haul truck operations.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

### Unit Sector

- Civil construction
- Coal mining
- Extractive
- Metalliferous mining

## Section 1 – Performance Criteria

**Note:** The bold highlighted text in the Performance Criteria below is explained in the Unit of Competency. It is included on the Trainer's Resource CD.

Performance Criterion (PC)	A5 Guide & PowerPoint Presentation	Learner Workbook / Learner Workbook Marking Guide		RTO to fill out (Additional materials, eg. web sites, You Tube, handouts...)
		Knowledge Question	Practical Training Task	
<b>1. Plan and prepare for rigid haul operations</b>				
1.1 Access, interpret and apply conducting rigid dump truck documentation	<ul style="list-style-type: none"> <li>• Introduction to Haul Truck. Page 10</li> <li>• Work Health &amp; Safety. Page 26</li> <li>• Where to find WHS documentation. Page 27</li> <li>• Safety Plan. Page 93</li> <li>• Question 1, 3, 4, 5,6, 13</li> </ul>	Question 1, 2	Practical Task 1	
1.2 Obtain, read, interpret, clarify and confirm work requirements	<ul style="list-style-type: none"> <li>• What industries do you see an rigid haul truck in? Page 11</li> <li>• Principles of soil technology for civil works. Page 14</li> <li>• The basics of road construction. Page 16</li> <li>• Operating techniques. Page 21</li> <li>• Worksite requirements. Page 32</li> <li>• Calculations. Page 37</li> <li>• Question 7, 8, 9, 10, 12, 14</li> </ul>	Question 3, 4	Practical Task 1	

Performance Criterion (PC)	A5 Guide & PowerPoint Presentation	Learner Workbook / Learner Workbook Marking Guide		RTO to fill out (Additional materials, eg. web sites, You Tube, handouts...)
		Knowledge Question	Practical Training Task	
1.3 Identify hazards and environmental issues, and implement control measures in line with workplace policies	<ul style="list-style-type: none"> <li>• Earthmoving site hazards. Page 38</li> <li>• Job safety and JSEA. Page 39</li> <li>• Hazard controls. Page 45</li> <li>• Environmental Management Plan. Page 46</li> <li>• Earthmoving Hazards and Risks. Page 52</li> <li>• Chemicals and solvents. Page 54</li> <li>• Safety around trenches. Page 55</li> <li>• Confined space. Page 57</li> <li>• Decibel levels of common sounds. Page 69</li> <li>• First aid and emergencies. Page 95</li> <li>• Overhead powerlines. Pages 130, 131</li> <li>• Question 43, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33</li> </ul>	Question 5, 6, 7	Practical Task 1	
1.4 Select and wear personal protective equipment required for work activities	<ul style="list-style-type: none"> <li>• Job safety and environment analysis. Page 39</li> <li>• Personal protective equipment (PPE). Page 75</li> <li>• PPE examples. Page 76</li> <li>• Tools and equipment. Page 84</li> <li>• Question 23, 34</li> </ul>	Question 8	Practical Task 1	
1.5 Access, interpret and apply required geological and survey data to meet work requirements	<ul style="list-style-type: none"> <li>• Question 35, 36, 37, 38</li> </ul>	Question 9	Practical Task 1	

Performance Criterion (PC)	A5 Guide & PowerPoint Presentation	Learner Workbook / Learner Workbook Marking Guide		RTO to fill out (Additional materials, eg. web sites, You Tube, handouts...)
		Knowledge Question	Practical Training Task	
1.6 Coordinate and communicate planned activities with others at the site prior to commencement of work activity	<ul style="list-style-type: none"> <li>Question 10, 11, 39, 41, 101</li> </ul>	Question 10, 11	Practical Task 1	
<b>2. Operate rigid haul truck in line with established requirements</b>				
2.1 Carry out prestart and start-up checks in line with workplace procedures	<ul style="list-style-type: none"> <li>Question 44, 45, 47, 48, 49, 50, 51, 52, 57, 58, 103</li> </ul>	Question 12, 13, 14, 15	Practical Task 2	
2.2 Identify faults or defects and rectify or report within scope of own responsibility and according to workplace procedures	<ul style="list-style-type: none"> <li>Question 44, 45, 49, 50, 51, 56, 57, 58, 103, 104</li> </ul>	Question 16	Practical Task 2	