# Learner Workbook Student copy

## Articulated Haul Truck TICKET



Training support material for: RIIMPO337E Conduct articulated haul truck operations

Produced by:



### Contents

Introduction to articulated haul trucks	5
The basics of road construction	9
Chapter 1 Plan and prepare for articulated haul truck operations	17
Chapter 2 Operate articulated haul truck	67
Chapter 3 Load, haul and dump materials	105
Chapter 4 Carry out housekeeping activities	120

## Introduction to Articulated Haul Truck



#### Introduction to articulated haul truck

An **articulated haul truck** is a large heavy duty type of haul truck used to transport loads over rough terrain and carry materials from one place to another.

The haul truck is built to handle rough slopes and slippery conditions. It has four-wheel or all-wheel drive and the truck steers by the cab and front axle pivoting separate from the load body and rear wheels. For example, to steer to the right, the engine, cab and front axle would pivot to the right.

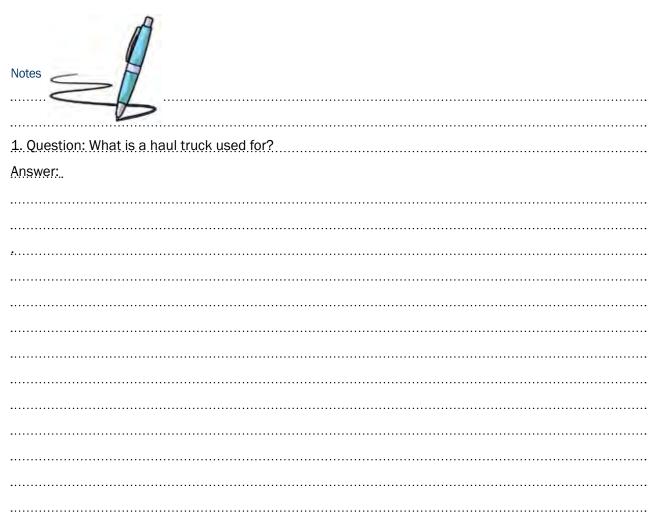


You can load a haul truck with a number of machines including excavators and loaders.





Articulated haul trucks covered in this guide are off-highway trucks and diesel-powered mechanical drive.



#### **Earthmoving site hazards**

#### **Checking for underground services**

You should always check where services are before you start work. You may phone '**Dial before you dig on 1100**'. You may look at the site plan or talk to your supervisor. You may need to look at the location of pits and meters to get an idea of where the services run. You may need to check with the local council or service company. You may even need to get underground detection equipment.

If you hit a service line, contact the provider immediately. You may need to organise to get the service disconnected while a qualified person fixes the problem.

You can sometimes tell there are services below by the types of ground. Some services are surrounded by a different type of soil, rock or sand. You may notice that the soil is looser, or does not match the soil around where you are digging. There may be a line of tape alerting you to the services.

If you suspect there are services underground, stop working. Check the ground. You may need to excavate the area by hand, or dig in another area.



.....



25. Question: What number do you phone to ind out where underground services are?

### 

#### PLAN AND PREPARE FOR ARTICULATED HAUL TRUCK OPERATIONS

#### QUESTION

What kinds of geological data do you need before starting earthmoving work?

You need to know about the kind of surface you will be working on. For example:

#### Where are the faults and joints?

#### Is the ground wet?

Wet ground can make moving the machine difficult, affect the balance of the machine, or the machine could get bogged.

What is the surface made of? For example, rock, shale, clay. Knowing this will help you operate the machine correctly.

How compacted is the surface? Knowing the answer to this helps you choose the right equipment for the job.

Will you be working on or near broken or weak ground? Knowing this will help you decide if the area is hazardous.

.....

.....

Where is the water table? If you hit the water table, the water could affect the machinery or you could damage the environment.



56. Question: What kinds of geological data do you need before starting earthmoving work?

#### Answer:

•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	
•••••	 	 	 	

### Operate articulated haul truck

**Chapter 2** 



#### QUESTION

What is the first check you do on the machine?

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



.....

Notes

65. Question: What is the first check you should do on a machine? Answer:

###