LEARNER GUIDE





RIIMP0323E

Conduct civil construction dozer operations



Industry Training Resources

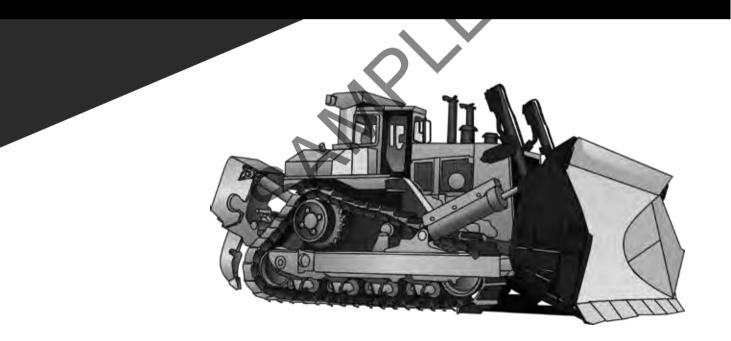




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Introduction to Dozers



Introduction to dozers

A dozer is a self-propelled tracked or wheeled pupose designed machine with a blade mounted at the front end. You use a bulldozer to move rocks, tree stumps and earth.

There are two types of dozers:

Tracked/crawler dozers are the most powerful and compact. But, they are slow, tracks wear quickly, they can damage concrete and are more difficult to transport between jobs.

They are best to use on uneven and slippery surfaces because they have the best traction.

Rubber tyre dozers are four-wheel-drive and can articulate.

They are stable and comfortable on firm level ground but are not good in the mud.

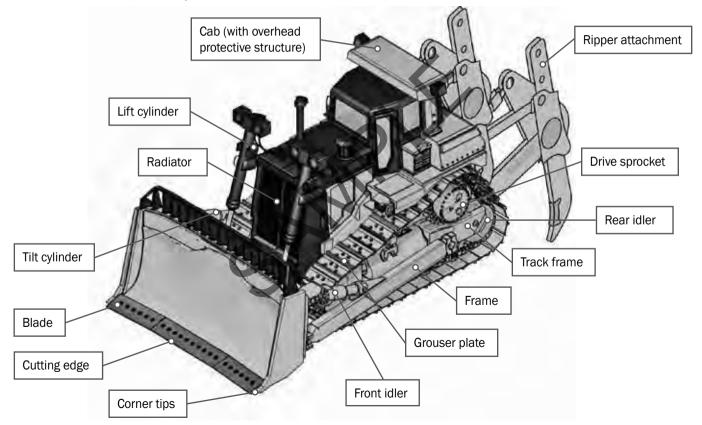
What industries do you use a dozer in?

- Civil construction
- Quarrying
- Mining
- Waste



An example of a dozer

A dozer, also called a bulldozer, is a tractor with a blade at the front. The blade can lift up or down, tilt and rotate. You use a bulldozer to move rocks, tree stumps and earth.



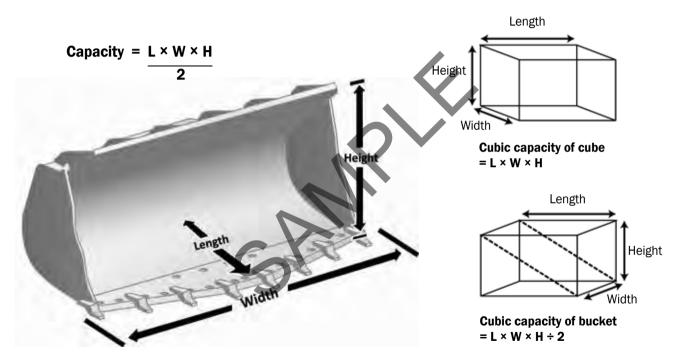
Plan and prepare for dozer operations



PC 1.2, KE 11

Calculations (continued)

How to find the cubic capacity of a bucket



Cubic capacity is ÷ 2 because of the shape of the bucket (a triangular prism)

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.

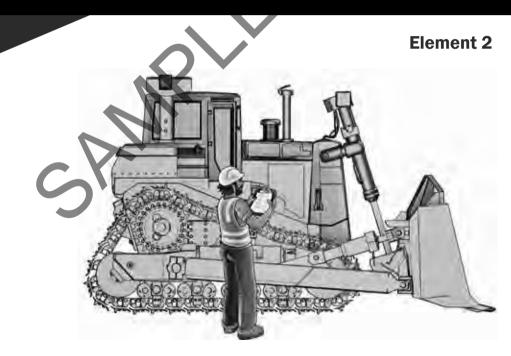
You can sometimes tell there are services below by the types of ground. Some services are surrounded by a different type of soil, rock or sand.

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.



Operate dozer



PC 2.1

OPERATE DOZER

QUESTION 27

What pre-operational checks do you do before using the dozer?

Checks may include:

