## **LEARNER GUIDE**



### Backhoe/Loader

**Training support material for:** 

RIIMP0319E Conduct backhoe/loader operations

### Produced by:



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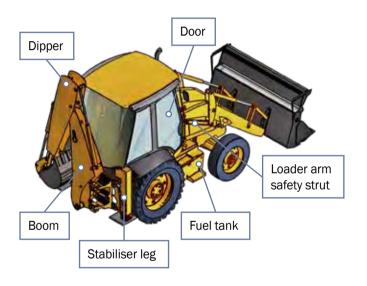
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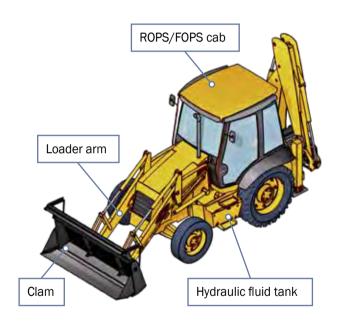
## Introduction to backhoe/loader



### What is a backhoe/loader?

A backhoe/loader is a machine with a front bucket and also a rear boom and attachment. You can use a backhoe/loader as a lifting machine if the boom has a proper lifting lug and safe working load (SWL).

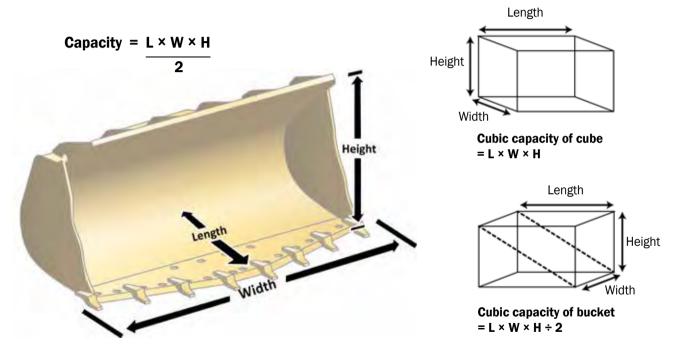




PC 3.1 GENERAL INFORMATION

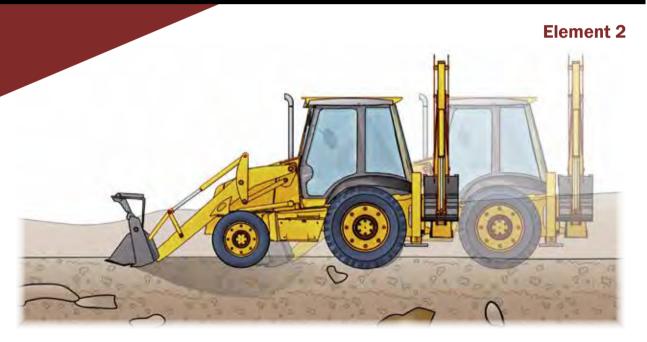
Calculations (continued)

### How to find the cubic capacity of a bucket



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

# Operate the backhoe/loader in line with established requirements



When do you test and inspect the backhoe/loader?

Every day. Always test and inspect before and after you use the backhoe/loader. You do this to make sure it's safe to use. Always follow workplace procedures for inspecting plant and equipment.



What pre-operational checks do you do before using the backhoe/loader?

Checks may include:

Look for leaks under the machine



Check tyre condition, tyre pressure and wheel nuts.



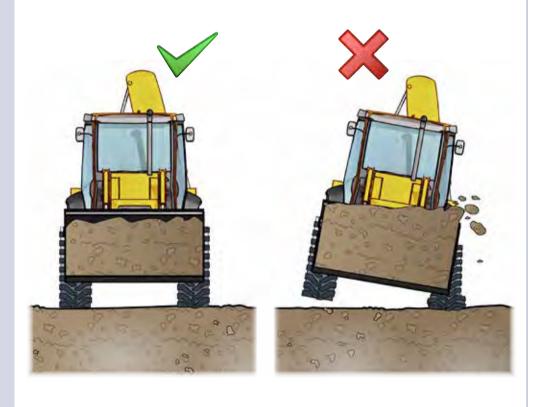
Check transmission oil



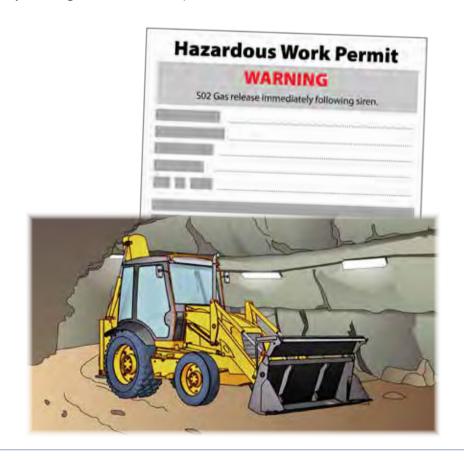
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Why do the tyres on a backhoe/loader need to be equal pressure?

If the tyres are not equal pressure, the backhoe/loader could tip over sideways and injure you or someone else.



You will work in a hazardous area, for example, a confined space. What type of permit might you need to get? You may need to get a hazardous work permit.



### **Powerlines**

Sometimes you will work near uninsulated powerlines. Working near powerlines is very dangerous and can kill you.

There are important rules you must follow - and the rules maybe different in your state/territory.

In some states/territories you may be able to use a spotter and work closer to powerlines.

