LEARNER GUIDE



Front End Loader-Wheeled

TICKET

Training support material for:

RIIMPO321F

Conduct civil construction wheeled front end loader operations

Produced by:



Contents

How to use th	is guide	
Acknowledgements		
Introduction to	o wheeled front end loader	
General information		1
Chapter 1	Plan and prepare for work	5
Chapter 2	Identify and control hazards	7
Chapter 3	Check and monitor equipment	10
Chapter 4	Operate/use equipment	12
Chapter 5	Shut down and store equipment	16
Chapter 6	Maintain equipment	17
Chapter 7	Housekeeping	18
Chapter 8	Record keeping	19
Chapter 9	Relocate equipment	19

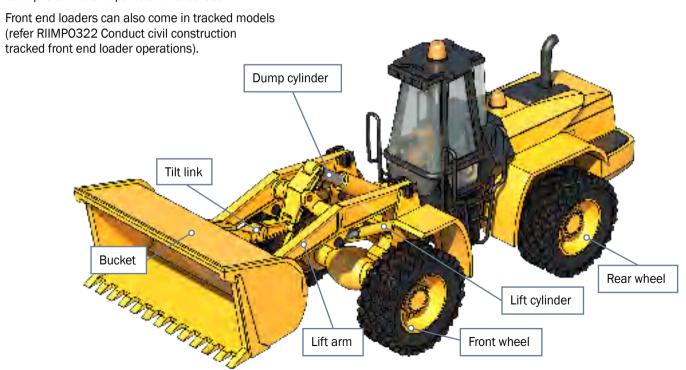
Introduction to Wheeled Front End Loader



An example of a wheeled front end loader

A wheeled front end loader is a type of machine, that has a front-mounted square wide bucket connected to the end of two booms (arms) to scoop up loose material such as dirt, sand or gravel and move it from one place to another without pushing the material across the ground.

A wheeled front end loader is commonly used to move material from ground level and deposit it into an awaiting dump truck, stockpile or into an open trench excavation.

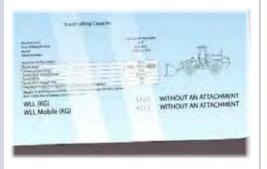


Plan and prepare for work



How can you find out the maximum safe working load (SWL) of the front end loader?

Check the load chart



Check the data plate



Read the markings on the loader itself

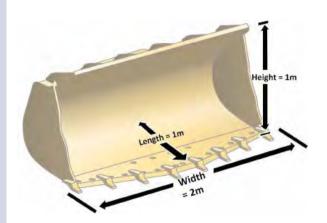


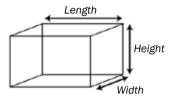
Read the operator's manual.



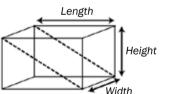
How do you find out the cubic capacity of the bucket?

Capacity =
$$L \times W \times H$$





Cubic capacity of cube = $L \times W \times H$



Cubic capacity of bucket = $L \times W \times H \div 2$ Cubic capacity is $\div 2$ because of the shape of the bucket (a triangular prism, or half of a rectangle)

OUESTION 32

Where do you put up warning signs?

Near underground services



Near dangerous places



In places you need to control traffic









On the site fencing.



Operate/use equipment

Chapter 4



How do you safely fill out a stockpile?

1. Start by filling the area closest to the back of the stockpile area.



2. Try not to fill too close to the edge. The edge of the stockpile could give way.



3. Keep filling out the stockpile one row at a time.



When dumping materials near an excavation, how far away from the excavation must you dump the load? As a general rule of thumb, you should dump the load the same distance away as the depth of the hole.

For example:

