

# LEARNER GUIDE



# Roller

TICKET

RIIMP0317F

Conduct roller operations



**EASY  
GUIDES**

Australia Pty Ltd

Industry Training Resources

# LEARNER GUIDE



# Roller TICKET

Training support material for:  
RIIMPO317F  
Conduct roller operations

Produced by:



# Contents

How to use this guide	4
Language – Literacy – Numeracy (LLN)	6
Acknowledgements	8
Introduction to roller	9
General information	23
Chapter 1 Plan and prepare for work	39
Chapter 2 Identify and control hazards	73
Chapter 3 Check and monitor equipment	105
Chapter 4 Operate/use equipment	125
Chapter 5 Shut down and store equipment	143
Chapter 6 Maintain equipment	151
Chapter 7 Housekeeping	163
Chapter 8 Record keeping	169
Chapter 9 Relocate equipment	171

# Introduction to Roller



## Introduction to roller

A roller is also called a compactor. It's a machine with a rotating cylinder (drum) attached to smooth or compact the ground. Some rollers are towed as an attachment to another kind of machine and some have their own engine. There are roller attachments available for other machines, such as excavators, skid-steer loaders, dozers and front-end loaders. Some rollers can articulate (have joints or jointed segments) and some cannot.

Rollers are made to compact material. They do it in four different ways.

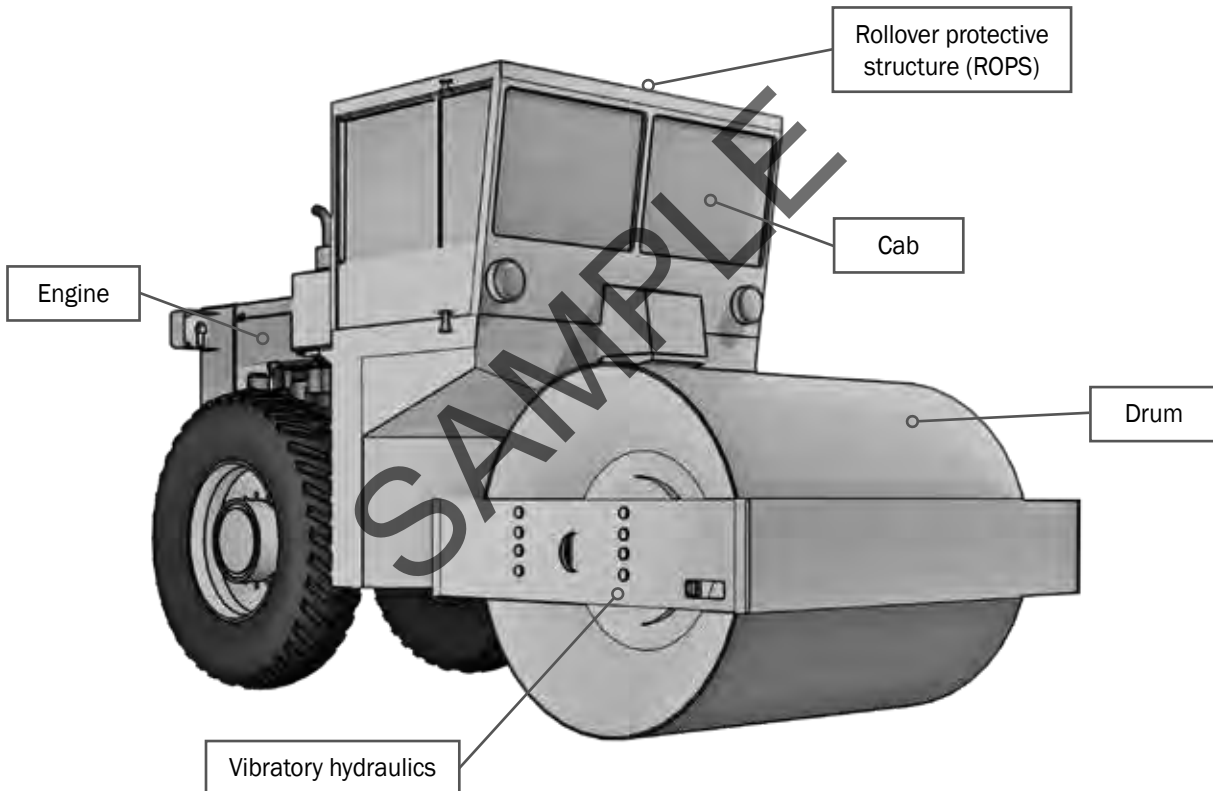
- Kneading
- Impact
- Vibration
- Using the weight of the roller only.

### What industries do you use a roller in?

- Civil construction



## An example of a roller



## Types of rollers/compactors

### Self propelled rollers

These rollers have their own engine, steering and drive system. There are many types available to do a range of different tasks.

For example:

**Two sets of rubber tyres and a plain steel roller drum**



**Two sets of rubber tyres and a sheepfoot steel roller drum**



Self propelled rollers (continued)

**Multi wheel and steel drum**



**Two plain steel drums**



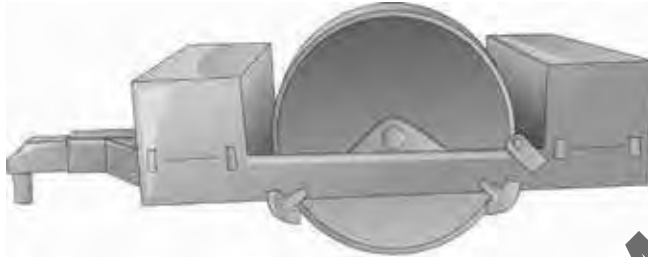
**Two sheepfoot steel drums**



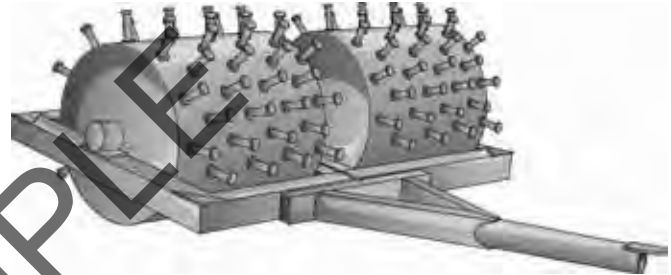


## Towed rollers

**Single plain drum roller**



**Single sheepfoot drum roller**



## Combination towed rollers

There are also many types of combination towed type rollers such as:

- Multi wheeled on single axle and single steel drum towed combination roller
- Multi wheeled on single axle and single sheepfoot drum towed combination roller
- Multi wheeled on two axle and single steel drum towed combination roller
- Multi wheeled two axle and single sheepfoot drum towed combination roller.

**QUESTION 1**

What kinds of rollers are there?

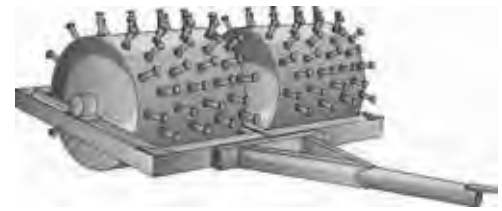
Multi-rubber-tyred roller



Sheeps foot or padded roller



A roller can be self-propelled, towed or attached to another kind of machine such as a loader. Towed rollers include grid rollers and sheepsfoot rollers.



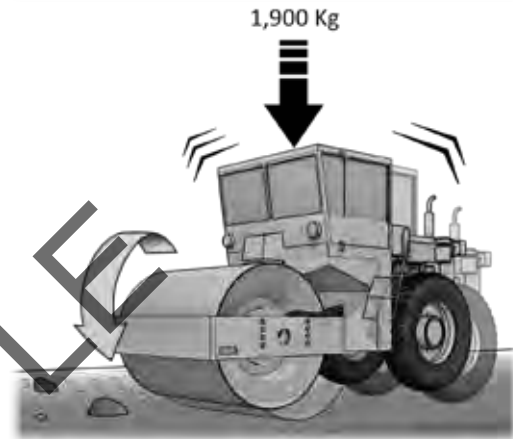
**...CONTINUES ON NEXT PAGE**

## QUESTION 1

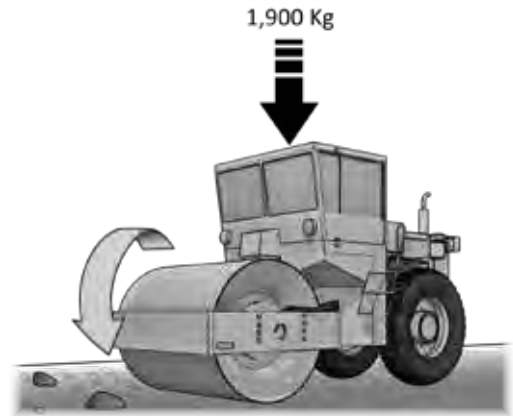
**...CONTINUED FROM PREVIOUS PAGE**

What kinds of rollers are there?

Vibrating roller



Static/smooth roller



# Plan and prepare for work

## Chapter 1



**QUESTION 11**

What do the job's work instructions explain?

Work instructions explain:

What to do in unexpected situations like bad weather

What the job is

Where the job is



How to do the job safely

How long the job will take

What tools and equipment you need

How to do the job from start to finish

**QUESTION 12**

What does the safety plan tell you?

What personal protective equipment (PPE) to wear



...CONTINUES ON NEXT PAGE

**QUESTION 12****...CONTINUED FROM PREVIOUS PAGE**

What does the safety plan tell you?

How to use tools, plant and equipment safely



Emergency procedures and exits



How to park safely and where to park



Control hazards and risks

