

Introduction

In this unit you will learn about different tyre types, construction, fitment as well as fitting, balancing, maintenance and repair. You will also examine different wheel construction types and current legislation regarding wheels and tyres.

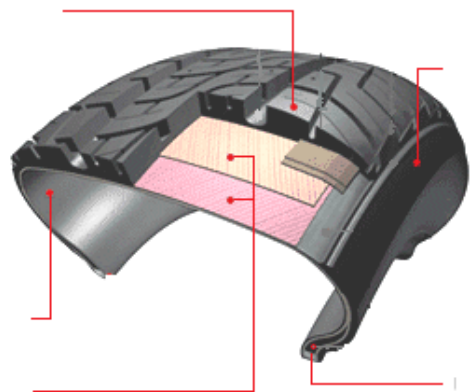
Using your underpinning knowledge, answer these vehicle wheels and tyres questions paying attention to common faults, serviceability and maintenance requirements for modern vehicles and associated legislation/design.

1. Give 3 examples of common faults found on road wheels?

2. Name 2 different tyre construction types?

3. Label this tyre diagram using the list supplied?

- I. Bead
- II. Tread
- III. Belts
- IV. Liner
- V. Sidewall



4. What is the minimum legal tread depth on a car in the UK?

5. What is the minimum permissible tread depth for a UK Motorcycle over 50cc?

6. What area of the tyre should the minimum tread depth cover?

Tyre Maintenance (L1 CAMS; L2CAMS: VF01)

Tyre maintenance and design is extremely important, but can be relatively simple. This section will consist of how to inspect tyres and 'read' the sidewall information, and identify common tyre faults.

- Complete the labels on this diagram of a tyre sidewall, stating what each item is?



A	_____
B	_____
C	_____
D	_____
E	_____
F	_____
G	_____
H	_____
I	_____

- The picture below shows 3 tyres, the centre tyre has been correctly inflated, mark which tyre is:

- Under inflated
- Over inflated



Correct
←



In this activity, you are required to research tyre legislation, wheel types and the theory about tyre balancing.

Your underpinning knowledge should allow you to find answers for the following questions;

1. Mark on the picture the permissible legal area that can be repaired on a vehicle tyre?
2. According to UK legislation, a cut or bulge in the tyre sidewall that hasn't punctured the tyre is still safe to use? True or False



3. Name these wheel types?



4. In your own words explain how you must dispose of used tyres in a safe and legal manner?

5. What is aquaplaning, explain the TWO main reasons that cause it?

Stages of aquaplaning

