

Student Name:

Date:

Unit Title	Introduction to vehicle wheels and tyres	Level:	ONE	Sheringham High School Motors
		Credit Value:	2	
		Unit Code:	H/501/7022	

Task: Work safely No 1.1

Use safe working practices when working with wheels and tyres

Safety

Before starting to remove or refit tyres you must ensure that you fully understand how to use the tyre removal equipment.

Make sure the valve core is removed fully to allow all of the air to escape before trying to break the bead.

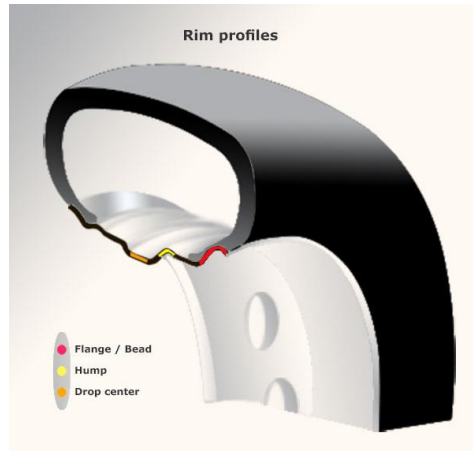


Ensure the wheel is clamped correctly;
take care not to trap your fingers

Car wheels are generally one-piece rims with a well base or drop centre. This allows for easier removal of the tyre.

Student Name:

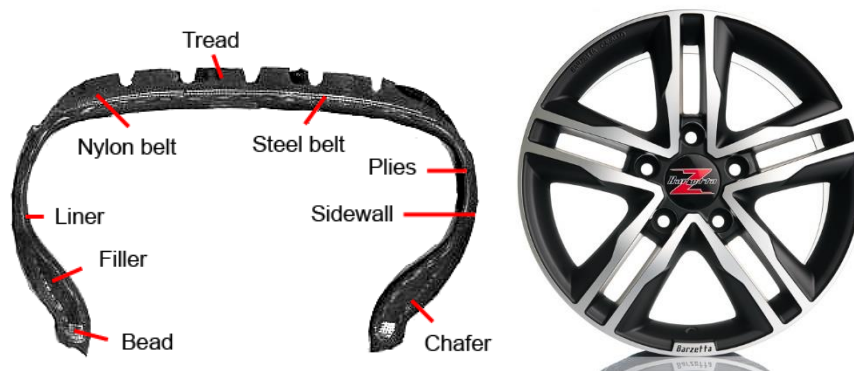
Date:



A section of a tyre on a well based one piece rim. When removing or refitting a tyre the bead is pushed into the well allowing the tyre to be levered over the rim.

Some truck and agricultural vehicles will have multi-piece rims. Never attempt to dismantle or reassemble a multi-piece-rim without specialist equipment and the appropriate training.

Multi-piece rims are used when the tyre sidewall is not flexible enough to be levered over the rim.



Refitting tyres Before refitting a tyre, the sidewall, bead and inside case of the tyre should be carefully examined for damage. The bead is then lubricated with a special tyre soap or bead lubricant to help it slide over the rim easily and without damage.



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Task: Know how to remove and replace road wheels No 2.1

Remove and replace road wheels with special attention to

- * safe jacking procedure
- * use of correct jacking points
- * use of axle stands
- * use of torque wrench

safe jacking procedure photo	use of correct jacking points photo
Task:	Task:
use of axle stands photo	use of torque wrench photo
Task:	Task:

Student Name:

Date:

Assessor Checklist	Achieved Y/N
PPE selected and used correctly	
Methodical Procedures used	

Assessor Declaration

In signing this sheet the assessor and learner confirm that all the operation in this task were Carried out by the named learner observed safe working practices at all times.

Assessor Signature..... Date.....

Learner Signature..... Date.....

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Task: Know how to inspect road wheels No 3.1, 3.2 ,3.3

3.1 Give examples of common wheel faults

List four common wheel faults.

1

2

3

4

3.2 Perform visual inspection of road wheels for serviceability with particular attention to damage and attachment devices

Photo	Photo
visual inspection	visual inspection
Photo	Photo
visual inspection	visual inspection

Student Name:

Date:

3.3 Identify key findings of inspection

What are the regulations set out for the main legal requirements for tyres, stating when tyres are illegal for use on the road:

Assessor Checklist	Achieved Y/N
Common wheel faults	
Main legal requirements	

Assessor Declaration

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Task: Know about tyre maintenance No 4.1, 4.2

Using methodical procedures, carry out routine tyre maintenance with regard to

- checking and adjusting tyre pressures
- measuring tread depth
- removing inclusions from tread area
- inspecting sidewalls for damage

checking and adjusting tyre pressures photo	measuring tread depth photo
Task:	Task:
removing inclusions from tread area Photo	inspecting sidewalls for damage Photo
Task:	Task:

Student Name:

Date:

Assessor Checklist	Achieved Y/N
Carry out routine tyre maintenance	
Main legal requirements	

Assessor Declaration

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Task: Know how to replace tyres 5.1, 5.2, 5.3, 5.4,

5.1 Remove a tyre (including valve assembly where appropriate) from a road wheel	
5.2 Identify the correct replacement tyre for a specified vehicle	
5.3 Fit a tyre in accordance with manufacturers guidance	
5.4 Re-inflate to correct pressure	
5.1 Remove a tyre Photo	5.2 Identify the correct replacement tyre for a specified vehicle Photo
Task:	Task:
5.3 Fit a tyre in accordance with manufacturers guidance Photo	5.4 Re-inflate to correct pressure Photo
Task:	Task:

Student Name:

Date:

Assessor Checklist	Achieved Y/N
Remove a tyre & fit a tyre	
Know how to replace tyres	

Assessor Declaration

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Task: Know how to balance wheels No 6.1, 6.2,

6.1 Explain the purpose of balancing a wheel and tyre assembly

6.2 Balance a wheel and tyre assembly in accordance with manufacturers guidance

6.1 Explain the purpose of balancing a wheel and tyre assembly

6.2 Balance a wheel and tyre assembly in accordance with manufacturers guidance

Balancing a wheel and tyre assembly Photo	Balancing a wheel and tyre assembly Photo
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Task:	Task:
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Student Name:

Date:

Assessor Checklist	Achieved Y/N
Explained the purpose of balancing a wheel and tyre assembly	
Balanced a wheel and tyre assembly in accordance with manufacturers guidance	

Assessor Declaration

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Task: Be aware of environmental considerations No 7.1

Demonstrate appropriate ways to dispose of waste products in accordance with environmental guidance

Explain how to dispose of old tires in accordance with local laws and regulations.

Assessor Checklist	Achieved Y/N
Demonstrated appropriate ways to dispose of waste products in accordance with environmental guidance	

Assessor Declaration

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Assessor Signature..... Date.....

Learner Signature..... Date.....