FEDS FAIRVIEW EDUCATIONAL SERVICES LTD

NZQA accredited and registered provider

Unit Standard 23818

PRACTICE PAPER ONLY

Test Paper One / Time allowed 90 mins

To be completed by the student

Student Name _____ **Date** __ / __ /2021

School/Provider _____

To be completed by the School Invigilator/Coordinator/Tutor

I confirm that this assessment was completed by the student named above as a closed book exercise under exam conditions

Invigilator Name_____

Invigilator Sign_____

Assessed By _____ **Date** __ /__ / 2021

Assessor's Stamp

Assessors Note: Materials relate to unit standard 23818

SAMPLE ASSESSMENT INSTRUCTIONS

PLEASE MAKE SURE TO READ AND SIGN THIS SECTION

ASSESSMENT INSTRUCTIONS

- Before starting this assessment you should have achieved a mark of at least 80% for your workbook.
- Use a black or blue ball point pen. (do not use pencil)
- Write your full name on the cover page.
- This is a closed book assessment, so you cannot bring any reference material in, or seek help from anyone else.
- You need to answer all the questions.
- Read the questions carefully, and give detailed answers when asked to.
- You must complete the assessment under exam conditions.
- To achieve the unit standard you must show competency for each outcome.

Complete the following by circling Yes or No as appropriate:

Are you ready to be assessed? **Yes** **No**

Have the assessment instructions these been explained to you? **Yes** **No**

Do you understand the assessment instructions? **Yes** **No**

Have you all the materials/resources that you need for this assessment? **Yes** **No**

Please sign to acknowledge that you have read these instructions and are ready to be assessed.

Student Signature: _____ Date: _____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

You must complete the assessment instructions on Page 2 before starting this assessment!

ELEMENT ONE

Demonstrate knowledge of braking system fault diagnosis and repair requirements for light vehicles.

1a When servicing brakes on light vehicles what precautions and inspections should be made?

_____

_____

_____

_____

_____

1b Why is it necessary to manually adjust brakes when doing a routine brake inspection?

_____

_____

_____

_____

1c Give a brief outline of the necessary servicing requirements when topping up, inspecting or changing brake fluid.

_____

_____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

1d What are the requirements for cleaning brake components?

_____

_____

_____

_____

2. Provide a WOF rule that applies to each of the following:

2a. Brake modification:

_____

_____

_____

2b. Brake condition:

_____

_____

_____

2c. Brake performance:

_____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

2d. Brake Repairs:

_____

_____

_____

2e. Brake component replacement:

_____

_____

_____

3. What is the term used for 'absorption' of moisture in brake fluid?

_____

4. From the following statements indicate which True (T) are and which False (F) are by writing the corresponding letter in the box provided.

☐ Dot 4 is synthetic and will not absorb moisture because it is manmade.

☐ Brake fluid from an opened container is suitable to be used as long as it is Dot 5 or higher.

☐ New Dot 5 brake fluid in its original container will not damage paint due to its synthetic properties.

☐ DOT 3 brake fluid should be changed every 48 months or after major brake work has been completed, as per manufacturer's specifications.

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

5. How should brake parts be cleaned?

_____

_____

6. What is the correct method of testing brake efficiency?

_____

_____

_____

_____

_____

_____

_____

_____

7. Describe the method for testing brakes using a tapley meter?

_____

_____

_____

_____

_____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

8. In the following statements state whether TRUE or FALSE. Write T or F in the box provided.

☐ All vehicles must be equipped with a service brake (foot brake) that operates on one of its wheels.

☐ All vehicles must be equipped with an independent parking brake (hand brake) that operates on at least half of the vehicles wheels.

☐ Brakes must be capable of easy adjustment.

☐ The service brake (foot brake) must stop the vehicle within a distance of seven meters at 50 km/h, or have a braking efficiency of not less than 10% as measured on a tapley meter.

9. Provide One inspection to be carried out when checking the following braking system components:

Master cylinder: _____

_____

_____

Wheel cylinder: _____

_____

_____

Brake pipe: _____

_____

_____

Brake lining: _____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

Brake calliper: _____

_____

_____

Brake hose (flexible): _____

_____

_____

10. Describe the overhaul procedure, including removing and replacement of a brake master cylinder.

_____

_____

_____

_____

_____

_____

11. Outline the procedure for overhauling a disc brake assembly.

_____

_____

_____

_____

_____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

12. Outline the procedure for overhauling a drum brake assembly.

13. Outline the procedure for overhauling a handbrake mechanism.

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

14. Explain why you would replace a flexible brake hose or brake pipe and how you would carry out that repair or replacement.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

15. Explain the testing procedure for a brake booster?

_____

_____

_____

_____

_____

_____

_____

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

16. Explain the procedure to overhaul or replace a brake booster.

This document is the copyright of Fairview Educational Services Limited and may not be reproduced in any form without its express written permission.

FEDS FAIRVIEW EDUCATIONAL SERVICES LTD

NZQA accredited and registered provider

www.feds.co.nz

473 Te Rapa Road, PO Box 10-244, Hamilton 3241

phone 07 849 9828 | **gateway@fairviews.co.nz**