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DIESEL MECHANIC

MINING QUALIFICATIONS AUTHORITY

CODE: HB

OVERHAUL HYDRAULIC BRAKES

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OBJECTIVE

To enable the learner to overhaul and service hydraulic brake systems on motorised vehicles.

LEARNING OBJECTIVES

On completion of this module, the learner must be able to:

- Replace the brake shoes and brake pads on a front and rear wheel brake assembly.
- Overhaul the hydraulic system.
- Adjust the brakes, hand brake and the master cylinder.

ASSESSMENT AND EVALUATION CRITERIA

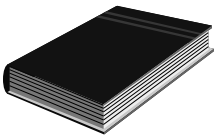
- A practical test will be set at the end of the module and must be completed without using references.
- The learner will be required to replace the brake shoes and brake pads and overhaul the hydraulic system on the brake assembly, and adjust the brakes, hand brake and master cylinder.

The following standards must be achieved:

- The front and rear wheel must run free after the pedal has been depressed several times.
- The pedal must not move more than 10% of its travelling distance.
- There must not be any leaks at the pipe fittings, the master cylinder and slave cylinder.
- The wheels must not be able to be turned by hand when the pedal is depressed.
- The hand brake lever must not move more than 10% of its travelling distance.
- The rear wheels must not be able to be turned by hand when the handbrake is applied.
- The reservoir must be filled to the proper level with the appropriate fluid.
- All the dust covers on the bleed screws, master cylinder and back plate of the drum brake must be replaced.
- All safety procedures must be adhered to.

ADDITIONAL RESOURCES

- A display board in the training centre.
- Demonstration by a competent person, e.g. a Training Officer.



SOURCE REFERENCES

- Demonstration by a competent person, e.g. Training Officer.

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HAZARD IDENTIFICATION AND CONTROL (HIAC) FORM

HB

OVERHAUL HYDRAULIC BRAKES

STEPS IN OPERATION / PROCESS	POTENTIAL ACCIDENT / INCIDENT	CONTROLS (BY RESPONSIBLE PERSON)
¶ Use hand tools	¶ Using damaged tools or wrong tools for the job can cause injury and damage to equipment.	
¶ Work on vehicle	¶ Working on moving equipment can cause serious injury.	
¶ Jacking up vehicle	¶ Improperly jacked up	

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