

## SERVICING VEHICLE BRAKING SYSTEMS

**UNIT CODE: ENG/CU/AUT/CR/5/4/A**

### **Relationship to Occupational Standards**

This unit addresses the unit of competency: **service vehicle braking systems**

**Duration of Unit:** 60 hours

### **Unit Description**

This unit specifies competencies required to service vehicle braking system. It involves inspecting braking system parts, removing, dismantling, cleaning and examining braking system components, servicing/repairing/ replacing and assembling braking system components, fitting braking system components and carrying out adjustments, testing and reporting.

### **Summary of Learning Outcomes**

1. Inspect braking system parts
2. Remove, dismantle, clean and examine braking system components
3. Service/repair/ replace and assemble braking system components
4. Fit braking system components and carry out adjustments
5. Test and report.

### **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning Outcome</b>	<b>Content</b>	<b>Suggested Assessment Methods</b>
1. Inspect braking system parts	<ul style="list-style-type: none"><li>• Park and prepare vehicle</li><li>• Assemble tools and equipment</li><li>• Personal protective clothing and equipment (PPEs)</li><li>• Safety regulations</li><li>• Test and verify vehicle braking system</li><li>• Filling braking system observation checklist</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Written</li><li>• Oral</li></ul>
2. Remove, dismantle, clean and examine braking	<ul style="list-style-type: none"><li>• Removing braking system components as per manufacturers manual</li><li>• Cleaning braking system components</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Written</li><li>• Oral</li></ul>

system components	<ul style="list-style-type: none"> <li>Examining braking system components</li> <li>Identifying Worn/damaged braking system components</li> </ul>	
3. Service/repair/replace and assemble braking system	<ul style="list-style-type: none"> <li>servicing braking system components</li> <li>replacing Worn/damaged braking system parts</li> <li>verifying replacement parts</li> <li>re-assembling braking system components</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Written</li> <li>Oral</li> </ul>
4. Fit braking system components and carry out adjustments	<ul style="list-style-type: none"> <li>Fitting braking system components</li> <li>carrying out Adjustments</li> <li>Carrying out Bleeding of braking system</li> <li>completing braking system service and repair</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Written</li> <li>Oral</li> </ul>
5. Test and report	<ul style="list-style-type: none"> <li>testing Braking system performance</li> <li>writing and sharing braking system service and repair report</li> <li>cleaning Work area</li> <li>Waste is disposed regulations (OSH Act- 2007)</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Written</li> <li>Oral</li> </ul>

### Suggested Methods of Instruction:

- Presentations and practical demonstrations by trainer;
- Guided learner activities
- Supervised activities and projects in a workshop;
- Visiting lecturer/trainer from the motor vehicle service and repair sector;
- Industrial visits.

### Recommended Resources

#### Tools, Equipment

- Hand tools
- Assorted spanners

- Pliers
- Oil can
- Jack
- Axle stands
- Car hoist
- Hammers
- Bleeding can and pipes
- Disc
- Drum
- Shoes and linings
- Pads
- Brake pipes
- Master cylinder
- Wheel cylinder
- Brake booster
- PPEs
- Checklists
- Job cards

### **Materials and supplies**

- Waste clothes
- Steering fluid
- Grease
- Arm bushes
- Dust seals
- Rubber boots
- Checklists
- Job cards
- Detergents

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