

Specification of Competency Standards for the Automotive Industry
Unit of Competency

1. Title	Check and repair vehicle hydraulic braking systems
2. Code	AUSDST207A
3. Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be capable to check and repair the mechanical parts of vehicle hydraulic braking systems safely according to the instructions in the vehicle manufacturer's servicing manual. They should also be capable to conduct basic tests of components upon completion of work as well as calculate and assess the performance of vehicle hydraulic braking systems according to the relative provisions under the Road Traffic Ordinance of Hong Kong.
4. Level	2
5. Credits	3(for reference only)
6. Competency	<p align="center"><u>Performance Requirements</u></p> <p>6.1 Understand the structure and basic operating principles of hydraulic braking systems</p> <ul style="list-style-type: none"> ◆ Understand the structure and basic operating principles of vehicle hydraulic braking systems ◆ Understand the general checking and repairing procedure for vehicle hydraulic braking systems according to the instructions in the vehicle manufacturer's servicing manual and the requirements of relevant road traffic ordinances of Hong Kong ◆ Understand the characteristics of brake oil

	<p>6.2 Check and repair vehicle hydraulic braking systems ♦ According to the instructions in the vehicle manufacturer’s servicing manual and the requirements of occupational safety and health, safely check and repair vehicle hydraulic braking systems, including:</p> <ul style="list-style-type: none">• Capable to identify the general problems in hydraulic braking systems by visual inspection• Maintain hydraulic braking systems, including cleaning the brake pad dust, adjusting drum brake pad and hand brake lever stroke etc.• Measure the wear and tear of brake pad, brake disc and brake drum; and assess component condition correctly according to the data contained in vehicle manufacturer’s servicing manual• Check and repair hydraulic braking systems components, including dismantle, replace and re-assemble vehicle system components• Use pedals, negative pressure or pressurization methods to release the air stored in the hydraulic pipes in the course of repairing• Eliminate typical system failure
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	<p>6.3 Check and repair vehicle hydraulic braking systems professionally ♦ Capable to calculate and assess if the testing data of vehicle hydraulic braking systems can meet the prescribed requirement according to the relevant provisions of the Road Traffic Ordinance of Hong Kong</p>
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to check and repair the vehicle hydraulic braking systems of general vehicles safely according to the instructions in the vehicle manufacturer’s servicing manual; (ii) Capable to conduct basic tests of components upon completion of work; and (iii) Capable to calculate and assess the performance of vehicle hydraulic braking systems according to the relevant provisions of the Road Traffic Ordinance of Hong Kong.
<p>8. Remarks</p>	<ul style="list-style-type: none"> (i) The credits value of this unit of competency is set on the presumption that the people concerned already possess basic knowledge of vehicle mechanical servicing and know how to handle brake oil. (ii) The major legislation/rule involved in this unit of competency is as follows: <ul style="list-style-type: none"> 1. Road Traffic (Construction and Maintenance of vehicles) Regulations - Brakes, Parking brake, Hydraulic braking systems, Vacuum or pressure braking systems and Braking efficiency