

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Vehicle Servicing

Title	Check and repair vehicle chassis units and components
Code	108650L2
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able to check and repair the mechanical parts of vehicle chassis units safely according to the instructions in the vehicle manufacturer's servicing manual and the relevant requirements on environment, safety and health regulations. They should also be capable of conducting basic tests on components upon completion of work and providing written report.
Level	2
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Structure and basic operating principles of vehicle chassis units.)</p> <ul style="list-style-type: none"> • Understand the structure and basic operating principles of vehicle chassis units such as: <ul style="list-style-type: none"> ○ Steering Systems ○ Suspension Systems ○ Transmission Systems (Including automatic and manual gearboxes as well as differential mechanisms) • With reference to the instructions in the vehicle manufacturer's servicing manual and the requirements of relevant provisions under the Road Traffic Ordinance of Hong Kong, understand the requirements and procedure for general checking and repairing of vehicle chassis units. • Understanding of the relevant legal requirements on road and vehicle safety and environment protection. <p>2. Performance (Check and repair vehicle chassis units)</p> <ul style="list-style-type: none"> • According to the instructions in the vehicle manufacturer's servicing manual and the requirements of occupational safety and health as well as that of environmental protection, safely check and repair vehicle chassis units, including: <ul style="list-style-type: none"> ○ Capable of identifying the general problems in vehicle chassis units by visual inspection ○ Check and repair vehicle chassis unit components, including dismantle, replace and re-assemble components ○ Eliminate typical unit failures ○ Conduct inspection and assessment prior to measurement of tyre positioning ○ According to the measuring guide provided by manufacturer, use tyre positioning instruments to measure tyre positioning angle and relevant numerical value accurately ○ Capable of adjusting the substandard numerical value of tyre positioning to meet the manufacturer's index ○ Accurately test and assess the performance of vibration dampers ○ Safely dismantle and install the springs after accurate assessment of the pressure storage condition ○ Conduct speed loss test for automatic transmission system and assess the result ○ According to the instructions in the vehicle manufacturer's servicing manual, report the items of substandard tyre positioning and propose suggestions for advanced checking and repairing • Conduct performance and safety inspection after the work and provide written report focusing on:

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	<ul style="list-style-type: none"> ○ Abnormalities ○ Measured data ○ Major decisions
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is:</p> <ul style="list-style-type: none"> • Capable of checking and repairing general vehicle chassis units and components safely according to the instructions in the vehicle manufacturer's servicing manual and the requirements on environment, safety and health regulations; and • Capable of measuring tyre positioning, vibration dampers and the speed loss test for automatic transmission system according to the instructions in the vehicle manufacturer's servicing manual and the requirements on environment, safety and health regulations. • Capable of conducting performance and safety inspection after the work and providing written report
Remark	<p>The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of vehicle servicing and know how to handle power system hydraulic oil.</p> <p>The major legislation/rule involved in this unit of competency is as follows:</p> <ul style="list-style-type: none"> • Road Traffic (Construction and Maintenance of vehicles) Regulations