

Specification of Competency Standards for the Automotive Industry
Unit of Competency

1. Title	Check and repair vehicle steering systems
2. Code	AUSDST209A
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 steering systems safely according to the instructions in the vehicle manufacturer's servicing manual and use vehicle positioning instruments to measure tyre position. They should also be capable to conduct basic tests of components upon completion of work.
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 vehicle steering systems</p> <ul style="list-style-type: none"> ◆ Understand the structure and basic operating principles of various types of vehicle steering systems (including power assisted systems) ◆ Understand the formation of vehicle steering geometry and basic operating principle ◆ 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 positioning systems

	<p>6.2 Check and repair vehicle steering systems ♦ 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 steering systems, including:</p> <ul style="list-style-type: none"> • Capable to identify the general problems in vehicle steering systems by visual inspection • Accurately check and assess the wear and tear of steering connecting rod components and the damages • Check and repair vehicle steering systems components, including dismantle, replace and re-assemble vehicle system components • Eliminate typical system failure • 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 to adjust the substandard numerical value of tyre positioning to meet the manufacturer’s index • 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
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to check and repair general vehicle steering systems safely according to the instructions in the vehicle manufacturer's servicing manual and the requirements of the Road Traffic Ordinance; and (ii) Capable to measure tyre positioning according to the instructions in the vehicle manufacturer's servicing manual.
8. Remarks	<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 servicing and know how to handle power system hydraulic 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 - Steering