Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Check, repair and replace tyres
Code	111684L2
Range	This unit of competency is applicable in vehicle service workshops and workplaces that provide tyre services. Practitioners should be able to check, mend, repair, and replace vehicle tyres (excluding those on electric motorcycles featuring in-wheel motors), valves, and rims safely according to the instructions in the corresponding manufacturer's manual. They should also be capable of conducting basic tests on components and providing a simple work report upon completion of the task.
Level	2
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Structure, functions and features of various wheel assemblies of vehicles) • Master the structure, codes, functions and features of the tyres and rims of vehicles, and the adaptation to different vehicle types. • Master the structure, types and functions of the tyre valves of vehicles. • Good understanding of the general tools/equipment for the maintenance of the tyres, valves, and rims of vehicles with the instructions given by the corresponding manufacturers. • Good understanding of the general checking and servicing procedures for the tyres, valves, and rims of vehicles with reference to the instructions given by the corresponding manufacturers. • Understand the relevant legal requirements on road and vehicle safety and environmental protection.

	2. Performance (Check, repair, replace and handle the tyres and rims of vehicles) • According to the instructions in the tyre, valve, and rim manufacturer's manual, the legal requirements of relevant road and vehicle safety, occupational safety and health as well as environmental protection, safely check, mend, repair, and replace the tyres, valves, or rims of vehicles, including: ◦ Inflate the tyre pressure correctly according to the information and instructions provided by vehicle manufacturers. ◦ Accurately inspect the tyre structure and measure the depth of tread patterns to make a correct assessment of the tyre condition. ◦ Inspect the airtight function of the tyre valve. ◦ Accurately detect and assess tyre leakage condition for mending work to be done ◦ Accurately check and test the damage of rims and measure the out-of-roundness to make a correct assessment of rim condition. ◦ Correctly use tyre changer to remove, replace and install tyres and rims. ◦ Use wheel balancer to rectify the wheel imbalance. • Install the tyres correctly according to the tyre manufacturer's guide and the requirements of the Road Traffic Ordinances of Hong Kong. • Collect, recover, re-tread, re-groove, handle and dispose of used tyres according to the code of practice for environmental protection and the Dangerous Goods Ordinance. • Measure and assess tyre wear according to relevant provisions of the Road Traffic Ordinance of Hong Kong. • Identify the legality of the combination of tyres on vehicle. • Visually inspect the normality of relevant vehicle components when installing or removing the wheels. • Conduct performance and safety inspection after work and provide a simple work report focusing on: ◦ Abnormalities ◦ Measured data ◦ Major decisions
Assessment Criteria	The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is: • Capable of disposing used tyres according to environmental protection legislation and the organisational requirements on environmental protection; • Capable of checking, measuring and assessing the condition of vehicle wheel assembly and determining the validity of wheel combinations in accordance with the relevant provisions of the Road Traffic Ordinance; and • Capable of checking, repairing and replacing various vehicle tyres, valves, and rims safely according to the instructions in the manufacturer's service manual and providing a simple work report.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned has already possessed basic knowledge of vehicle and comprehensive knowledge of wheel assembly. They should also possess the operational competency of garage jack and associated vehicle support stands as well as road wheel removal and replacement. The major legislation / rules involved in this unit of competency are as follows: • Road Traffic (Construction and Maintenance of vehicles) Regulations – Wheels and Tyres • Waste Disposal Ordinance • Dangerous Goods Ordinance • (This UoC replaced 108646L2)