Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Defining defects of paint coating
Code	111716L3
Range	This unit of competency is applicable in vehicle servicing workshops. Practitioners should be able to conduct complicated defects on vehicle body paint work and conduct or arrange rectification according to the instructions in the vehicle paint manufacturer's handbook and the relevant requirements on environment, occupational safety and health regulations. They should also be able to conduct inspection and providing written report upon completion of work.
Level	3
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Defects on vehicle body paint work and their causes) • According to the vehicle paint manufacturer's handbook to understand the defects on vehicle body paint work, such as: ◦ Adhesion loss and chipping ◦ Blushing ◦ Crazing ◦ Fish eyes ◦ Mottling ◦ Pinhole ◦ Sand scratch swelling ◦ Solvent popping ◦ Blistering ◦ Cracking ◦ Featheredge cracking ◦ Orange peel ◦ Sag or Run ◦ Shrinking of putty ◦ Discoloration • Be familiar with the causes of the paint defects, such as: ◦ Surface preparation ◦ Choice of refinishing material ◦ Reading paint manufacture's instruction ◦ Operation condition and technique ◦ Thinning ◦ Drying time

	2. Performance (Rectification of the defects on vehicle body paint work.)
	• According to the vehicle paint manufacturer's handbook and the requirements of occupational health and safety and that of environmental protection, the curing methods of the paint defects as the followings:
	  ◦ Polishing with wax
	  ◦ Polishing with fine sanding paper
	  ◦ Flatting and respray
	  ◦ Respray from the prime layer
	  ◦ Respray from the bare layer

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 accurately identifying defects on vehicle body paint work according to the vehicle paint manufacturer's handbook and the relevant requirements on environment, occupational safety and health regulations; • Capable of conducting or arranging rectification of the defects on vehicle body paint work; and • Capable of conducting inspection of vehicle body paint work and completing simple defects report upon completion of work.
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the knowledge of vehicle paint materials. (This UoC replaced 108717L3)