Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	Carry out vehicle body masking and painting (include plastic components) process
Code	111673L2
Range	This unit of competency is applicable in vehicle painting workshops. Practitioners should be able to carry out vehicle body masking, painting (include plastic components) process according to working instructions or the guidelines in the vehicle manufacturer's servicing manual and providing written report,
Level	2
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Masking/Painting materials and spray guns) • Know the characteristics of typical masking paper and masking tape as well as associated equipment • Know the composition and characteristics of primer paint and finish paint and plastic paint including waterborne paint. • Know the characteristics and operating principles of various kinds of spray guns, including high volume low pressure (HVLP) spray guns. • Know the content of Safety Data Sheet (SDS) with respect to paints, catalysts and dissolvent, including protective measures. • Understand the process of body masking and the techniques of removing masking tape. • Understand the characteristics of the materials of different workpiece, surface preparations, paint selection and painting methods. • Understand the painting process and the reasons for paint defects. • Understanding of the relevant legal requirements on environment protection. 2. Performance (Carry out masking/painting process) • Select and use appropriate personal protective equipment correctly. • Identify the regions that need to be covered during the painting process. • Observe the condition of the workplace and should carry out masking and painting process in the spray booth equipped with anti-pollution control device, and capable of minimizing material consumption. • Select and use appropriate masking paper and tape to cover the areas that need to be protected. • Select and use suitable tools and instruments; and apply relevant painting techniques correctly regarding the characteristics of different spray guns. • Operate spray booth； infra-red car paint curer, also control the temperature and time accurately. • Complete the painting process according to the guidelines in the vehicle manufacturer manual, the occupational safety and health as well as environmental protection ordinances and Factories and Industrial Undertakings (Spraying of Flammable liquids) Regulations. • Conduct inspection upon completion of painting process to ensure that no paint defects and provide written report focusing on: • Abnormalities • 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 selecting and adjusting spray guns and other devices according to working instructions or the guidelines in the vehicle manufacturer's servicing manual to carry out masking/painting process; and • Capable of conducting inspection upon completion of painting process to ensure that no paint defects and providing written report.
Remark	The credits value of this unit of competency is set on the presumption that the practitioner concerned has already possessed the knowledge of how to handle chemicals and operate commonly used spraying tools and instruments. (This UoC replaced 108666L2, 108667L2 and 108673L1)