

Specification of Competency Standards
for the Automotive Industry
Unit of Competency

Functional Area - Common Competency

Title	Fulfil the requirements on environmental protection (electrical and mechanical servicing)
Code	108804L3
Range	This unit of competency is applicable to technical personnel in various kinds of electrical and mechanical servicing workshops of the automotive industry. Practitioners should be able to understand the environmental protection concept and comply with environmental protection requirements when working in a familiar vehicle servicing workshop.
Level	3
Credit	3 (For Reference Only)
Competency	Performance Requirements 1. Knowledge (Environmental protection concept) • Good understanding of the statutory requirements on environmental protection ordinances applicable to the department which one belongs to. • Good understanding of organisational instructions on the requirements of environmental protection. 2. Performance (Comply with requirements on environmental protection) • Comply with organisational instructions on environmental protection in familiar electrical and mechanical servicing workshops; and cautiously carry out the procedure that may cause pollution so as to protect the environment, such as: ○ Prevent leakage of engine oil, fuel, gearbox oil, organic dissolvent, paint, engine coolant and various kinds of hydraulic oil into the land and prevent discharge of these pollutants into sewer, river, stream or sea. Relevant work should be carried out on the floor coated with leak-proofing material or covered with leak-proofing canvas. All procedures should be handled according to the Code of Practice for Chemical Waste Producers ○ Prevent disposing empty utensils containing organic substances (e.g. abandoned oil container, abandoned oil filter and washing cloth, etc.) together with general waste ○ Testing of engines or vehicle emission should be carried out in indoor workshops with exhaust gas extraction system so as to reduce the nuisances caused by exhaust gas ○ Collect all refrigerants by approved refrigerant recycling equipment before opening up of the refrigerant lines. Take precaution measures to prevent leakage of refrigerant in the process and maintain records on utilisation of refrigerants. ○ Work that will generate large amount of effluent such as car or engine washing should be carried out in workshops with Water Pollution Control Ordinance Licence; and should keep the utilisation of cleansers, chemicals and fresh water under control ○ Use vacuum cleaning equipment, cleansers and containers for collection purposes in carrying out procedures that generate suspended particles such as brakes and clutches repairing etc. so as to avoid tiny particles suspended in the air or dropping of contaminated solvent on the shop floor. ○ Works that generate noise, such as testing of engines, or exhaust gas, and use of pneumatic tools, should be carried out in indoor workshops within specified timeframe to avoid causing noise nuisances ○ Works involving dangerous chemicals and pollutants should be carried out according to procedures

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	○ Sort, recycle and handle the wastes or recyclable parts according to established instructions prior to disposal. • Be familiar with the organisation's contingency measures on pollutant leakage and capable of handling the situation and efficiently so as to minimize danger and pollution. • Confirm the compliance with the statutory requirements on handling chemical wastes, waste water discharge and utilization of refrigerants.
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 fully understanding the environmental protection ordinances and organisational requirements on environmental protection; and carry out the work carefully to protect the environment; • Capable of carrying out the duties involving dangerous chemicals, pollutants, recoverable parts and waste according to established procedure in a familiar electrical and mechanical servicing workshop; and • In case of pollutant leakage, capable of implementing the contingency measures safely and efficiently in handling and following up, so as to minimize danger and pollution.
Remark	The major relevant legislation/rule involved in this unit of competency is as follows: • Waste Disposal (Chemical Waste) (General) Regulation