

**Specification of Competency Standards**  
**for the Automotive Industry**  
**Unit of Competency**

Functional Area - Common Competency

Title	Identify typical dangerous chemicals and understand their characteristics
Code	108800L1
Range	This unit of competency is applicable to general mechanical workshops, vehicle body and painting workshops, LPG vehicle service workshops, testing sites; car cleaning shops, car parks, parts warehouses. Practitioners should be able to identify typical dangerous chemicals and understand their characteristics to enhance their awareness in a familiar working environment.
Level	1
Credit	1 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge (Categorisation of dangerous chemicals and their characteristics)</p> <ul style="list-style-type: none"> <li>• Understand the labelling system of dangerous chemicals and their different degrees of danger; also understand the hazard and characteristics of dangerous chemicals mentioned in the Safety Data Sheet (SDS).</li> <li>• Understand the characteristics of typical dangerous chemicals in gas, liquid and solid phases in the industry.</li> <li>• Understand the regulations of environmental protection, dangerous goods and the organisational requirement on environmental protection.</li> </ul> <p>2. Performance (Identify various kinds of typical dangerous chemicals)</p> <ul style="list-style-type: none"> <li>• Capable of noticing the existence of typical inflammable substances or combustible gases by visual, smell or direct contact in the absence of relevant labels.</li> <li>• Capable of identifying the typical chemicals used in automotive industry such as fuel, paint, thinner, various kinds of lubricants, coolant, hydraulic oil, cleanser, sulphuric acid, etc. from the inventory record; also capable of identifying the categories and labels of chemicals stipulated in the Dangerous Goods (General) Regulations.</li> <li>• Identify the possible risk of dangerous goods in vehicle parts.</li> <li>• Identify the potential danger of vehicle exhaust.</li> <li>• Identify the dangerous chemicals in the vehicles.</li> <li>• Identify various kinds of pressure vessels and the related accessories in different worksites and understand their dangerous nature.</li> <li>• Capable of protecting the safety of oneself and others with enhanced awareness upon knowing the existence of dangerous chemicals.</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is:</p> <ul style="list-style-type: none"> <li>• Capable of identifying typical dangerous chemicals and understand their dangerous nature so as to enhance awareness in a familiar industry-related working environment despite the absence of clear labels;</li> <li>• Capable of identifying the dangerous chemicals existing in parts or in vehicles; also capable of identifying the potential danger of vehicle exhaust; and</li> <li>• Capable of identifying the categories and labels of dangerous goods stipulated in the Dangerous Goods (General) Regulations.</li> </ul>
Remark	<p>The major relevant legislation/rule involved in this unit of competency is as follows:</p> <ul style="list-style-type: none"> <li>• Waste Disposal (Chemical Waste) (General) Regulation</li> <li>• Dangerous Goods Ordinance</li> </ul>