

1. Title	Maintain and repair supply system and leakage detection system in LPG filling station
2. Code	EMGAOR201A
3. Range	Maintain and repair supply systems and leakage detection systems in LPG filling stations, including dispenser, LPG pump, dispensing system control panel, pneumatic system control panel and emergency shut-down system.
4. Level	2
5. Credits	14
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of maintaining and repairing supply system and leakage detection system in LPG filling station</p> <ul style="list-style-type: none"> <li>◆ Use multi-meter correctly to measure the resistance, current and voltage of circuit</li> <li>◆ Use clamp ammeter correctly to measure current of power line</li> <li>◆ Use insulation meter to measure insulation resistance of power line</li> <li>◆ Use phase meter correctly to measure phase sequence of the three-phase power source</li> <li>◆ Master the application of common pneumatic tools</li> <li>◆ Understand the pneumatic control principles</li> <li>◆ Understand the emergency shut-down system</li> <li>◆ Understand the system and operation flow of filling station</li> <li>◆ Understand the gas detection system</li> <li>◆ Understand the internal structure of dispenser</li> </ul> <p>6.2 Methods and procedures of maintaining and repairing supply system and leakage detection system in LPG filling station</p> <ul style="list-style-type: none"> <li>◆ Handle the faults of the LPG tanks and valves or leakage correctly</li> <li>◆ Handle the faults of the dispenser correctly</li> <li>◆ Handle the faults of the pneumatic valves correctly</li> <li>◆ Handle the faults of the emergency shut-down system correctly</li> <li>◆ Handle the faults of the control panel correctly</li> </ul>

	<ul style="list-style-type: none"> <li>◆ Handle the faults of the LPG pumps correctly</li> <li>◆ Handle the faults of the gas detector correctly</li> <li>◆ Purge the remaining LPG in the station equipment</li> <li>◆ Set the maintenance sequence according to the station equipment maintenance plan, and report to the management</li> </ul> <p>6.3 Professional knowledge and responsibilities for maintaining and repairing supply system and leakage detection system in LPG filling station</p> <ul style="list-style-type: none"> <li>◆ Follow the manufacturer's and technical instructions to install equipment to meet the explosion-proof specifications</li> <li>◆ Understand basic classification of hazard zone</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to carry out maintenance for the LPG systems and equipment in the LPG filling station; and</p> <p>(ii) Capable to repair the LPG systems and equipment in the LPG filling station.</p>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMGADE101A <b>【Basic knowledge of gas application】</b> .</p>