

1. Title	Maintain and repair underground gas mains
2. Code	EMGAOR303A
3. Range	Carry out routine maintenance, repair and emergency repair on general road service for all kinds of gas mains, including polyethylene (PE) gas main, ductile iron pipe and steel pipe.
4. Level	3
5. Credits	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of underground gas main maintenance and repair</p> <ul style="list-style-type: none"> <li>◆ Understand the location of pipe installation and the requirements on pipe support and protection</li> <li>◆ Read out and explain the working drawing of the gas network clearly and put on record the work completed</li> <li>◆ Understand the readings of underground gas main cathode protection</li> <li>◆ Understand underground public utilities plans</li> <li>◆ Distinguish different public utilities</li> <li>◆ Know about the industrial safety knowledge relevant to gas main laying</li> </ul> <p>6.2 Methods and procedures of underground gas main maintenance and repair</p> <ul style="list-style-type: none"> <li>◆ Carry out live gas connection</li> <li>◆ Judge the outward appearance of the underground gas main and carry out repair of different degrees</li> <li>◆ Operate the WASK bagging system</li> <li>◆ Use pipe and cable locator to locate the exact position of the underground gas main</li> <li>◆ Remove water or heavy oil from the underground gas main</li> <li>◆ Use leakage detection equipment correctly for gas supply network inspection</li> <li>◆ Locate the leakage</li> </ul>

	<p>6.3 Professional knowledge and responsibilities for underground gas main maintenance and repair</p> <ul style="list-style-type: none"> <li>◆ Apply basic legislations and regulations relevant to underground public utilities installation</li> <li>◆ Apply all the provisions in the Gas Safety (Installation and Use) Regulations under the Gas Safety Ordinance, Cap. 51</li> <li>◆ Apply all the provisions in the Gas Production and Supply Code of Practice GPS01 [Avoiding danger from gas pipes]</li> <li>◆ Apply other gas related regulations and codes of practice</li> </ul>
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to carry out routine maintenance, repair and emergency repair on general road service for all kinds of gas mains, including polyethylene (PE) gas main, ductile iron pipe and steel pipe.</p>
<p>8. Remarks</p>	<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> , EMGAIT209A <b>【Install gas mains (steel pipes)】</b> , EMGAIT210A <b>【Install and lay gas mains (ductile iron pipes)】</b> , EMGAIT212A <b>【Install and lay gas mains (automatic butt fusion method)】</b> and EMGAIT203A <b>【Install and lay gas mains (electro fusion method)】</b> .</p>