

1. Title	Arrange to carry out engineering work safely in explosion-proof and hazard zones
2. Code	EMGASH301A
3. Range	Understand clearly the classification of explosion-proof and hazard zones, how dangerous they are, and the potential hazards of the engineering process; arrange the engineering work to be carried out safely in explosion-proof and hazard zones.
4. Level	3
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of arranging to carry out engineering work safely in explosion-proof and hazard areas</p> <ul style="list-style-type: none"> ◆ Understand the effects of explosion-proof principles on engineering safety ◆ Master industrial safety knowledge relevant to explosion-proof and hazard zones ◆ Understand the classification of hazard zone ◆ Master general fire safety knowledge <p>6.2 Methods and procedures of arranging to carry out engineering work safely in explosion-proof and hazard zones</p> <ul style="list-style-type: none"> ◆ Compare the effects of physical properties of Towngas, LPG and natural gas on the safety of explosion-proof and hazard zones ◆ Identify the danger category, level and temperature group of Towngas, LPG and natural gas ◆ Select suitable explosion-proof electrical equipment for different kinds of dangerous environment ◆ Point out the installation requirements on different kinds of explosion-proof electrical equipment

	<p>6.3 Professional knowledge and responsibilities for arranging to carry out engineering work safely in explosion-proof and hazard zones</p> <p>◆ Apply relevant gas safety regulations and codes of practice</p>
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to select suitable explosion-proof electrical equipment for different kinds of dangerous environment, and arrange to carry out engineering work safely in explosion-proof and hazard zones.</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 【Basic knowledge of gas application】 .</p>