

1. Title	Install, test and commission fixed gas detection system and other relevant instruments
2. Code	EMGAIT301A
3. Range	Install, test and commission fixed gas detection system and other relevant instruments in places where gas monitoring is needed (e.g. central LPG supply system, LPG filling station, repair workshop, etc.).
4. Level	3
5. Credits	7
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of installing, testing and commissioning fixed gas detection system and other relevant instruments</p> <ul style="list-style-type: none"> ◆ Point out respectively the effects of Towngas, LPG and natural gas on the safety of explosion-proof and hazard zone ◆ Point out respectively the danger category and level and temperature group of Towngas, LPG and natural gas ◆ Understand the classification of hazard zone <p>6.2 Methods and procedures of installing, testing and commissioning fixed gas detection system and other relevant instruments</p> <ul style="list-style-type: none"> ◆ Select suitable explosion-proof gas detection systems for different dangerous environments ◆ Use a multi-meter correctly to measure the resistance, current and voltage of circuit ◆ Install gas detection system correctly ◆ Select correct position for gas detection system installation ◆ Calibrate the gas detection system correctly <p>6.3 Professional knowledge and responsibilities for installing, testing and commissioning fixed gas detection system and other relevant instruments</p> <ul style="list-style-type: none"> ◆ Understand the effects of explosion-proof principles on engineering safety

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to install, test and commission fixed gas detection system and other relevant instruments in places where gas monitoring is needed (e.g. central LPG supply system, LPG filling station, repair workshop, etc.).
8. Remarks	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】 .