

1. Title	Install and test supply system and ancillary systems in LPG filling station
2. Code	EMG AIT201A
3. Range	Install and test LPG filling systems and equipment in general LPG filling stations, including dispenser, LPG pump, dispensing system control panel, pneumatic control system and emergency shut-down system.
4. Level	2
5. Credits	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of installing and testing supply system and ancillary system in LPG filling station</p> <ul style="list-style-type: none"> ◆ Use multi-meter correctly to measure the resistance, current and voltage of circuit ◆ Use clamp type ammeter correctly to measure current of power line ◆ Use insulation meter to measure insulation resistance of power line ◆ Use phase meter correctly to measure phase sequence of the three-phase power source ◆ Identify general circuit components and know their functions ◆ Understand the pneumatic control principles ◆ Understand the emergency shut-down system ◆ Understand the system and operation flow of filling station ◆ Understand the basic principles of explosion-proof standards <p>6.2 Methods and procedures of installing and testing supply system and ancillary system in LPG filling station</p> <ul style="list-style-type: none"> ◆ Follow the manufacturer's and technical instructions to install equipment to meet the explosion-proof specifications ◆ Follow the manufacturer's and technical instructions correctly to install the LPG pump ◆ Follow the manufacturer's and technical instructions correctly to install the dispenser

		<ul style="list-style-type: none"> ◆ Follow the manufacturer's and technical instructions correctly to operate the dispenser ◆ Follow the manufacturer's and technical instructions correctly to install pipes and valves of the pneumatic system ◆ Follow the manufacturer's and technical instructions correctly to test the pneumatic system ◆ Follow the manufacturer's and technical instructions correctly to install the emergency shut-down buttons ◆ Follow the manufacturer's and technical instructions correctly to test the emergency shut-down system ◆ Follow the manufacturer's and technical instructions correctly to install and test the pneumatic system control panel
	<p>6.3 Professional knowledge and responsibilities for installing and testing supply system and ancillary system in LPG filling station</p>	<ul style="list-style-type: none"> ◆ Apply all the provisions in the Gas Safety (Gas Supply) Regulations under the Gas Safety Ordinance, Cap. 51 ◆ Apply the Code of Practice for Hong Kong LPG Industry: Module 1 [LPG Compounds and Cylinder Stores] ◆ Apply the Code of Practice for Hong Kong LPG Industry: Module 2 [Underground LPG Pipework] ◆ Apply the Code of Practice for Hong Kong LPG Industry: Module 4 [Aboveground Distribution Pipes, Service Risers, Downers and Ring Mains] ◆ Apply other gas related regulations and codes of practice

7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to install and test the supply system and ancillary systems in a LPG filling station.
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】 .