UNIT CODE	**HLTHSS012**
UNIT TITLE	**Handle medical gases safely**
APPLICATION	This unit describes the skills and knowledge to handle medical gas equipment in a safe manner to workplace requirements within the health care environment. This unit applies to a variety of health or community service roles involving handling medical gases. At this level workers perform under supervision and generally within a team environment within predetermined guidelines. The skills in this unit must be applied in accordance with workplace requirements, Commonwealth and State/Territory legislation, Australian standards and industry codes of practice. No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication
PREREQUISITE UNIT	Nil
COMPETENCY FIELD	Allied Health
UNIT SECTOR	Health

ELEMENTS	**PERFORMANCE CRITERIA**
Elements describe the essential outcomes	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Prepare for handling and storage of medical gas and equipment.	1.1 Select equipment and handling requirements in accordance organisational procedures. 1.2 Set up work areas to ensure safe, effective and efficient handling of equipment. 1.3 Inspect equipment for cleanliness or damage of all components. 1.4 Identify potential hazards to work and manage risks in accordance organisational procedures. 1.5 Report and document identified hazards and risks. 1.6 Wear personal protective equipment and fit in accordance organisational procedures and manufacturers specifications. 1.7 Fit and test bottles and regulators in accordance with manufacturers requirements.

2. Handle medical gas equipment in accordance with legislative requirements.	2.1 Use recommended precautions when handling medical gas equipment. 2.2 Ensure only trained and authorised personnel are involved in handling medical gas equipment. 2.3 Handle medical gas cylinders and related equipment with care and position according to manufacturer requirements. 2.4 Select trolley size and type and restrain cylinders for transport. 2.5 Select regulators for use with cylinder. 2.6 Close valves prior to transport. 2.7 Close cylinder valves and release regulator pressure after use. 2.8 Monitor gas pipeline and manifold systems. 2.9 Replace empty bottles and banks as soon as exhausted. 2.10 Open cylinder valves on manifold banks in accordance with and organisational procedures and manufacturers guidelines.
3. Store medical gas cylinders and equipment in accordance with legislative requirements.	3.1 Store all cylinders and equipment in storage locations in accordance with organisational procedures and manufacturer recommendations. 3.2 Store cylinders away from combustible materials. 3.3 Use cylinder stock on a rotational system and keep full and empty cylinders separate. 3.4 Ensure cylinders are protected from cold and heat. 3.5 Close and secure storage area. 3.6 Ensure signage is clearly displayed outside medical gas storage area.

FOUNDATION SKILLS	
Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.	
SKILLS	**DESCRIPTION**
Reading skills to:	■
Writing skills to:	■
Oral communication skills to:	■
Numeracy skills to:	■
Learning skills to:	■
Problem-solving skills to:	■
Initiative and enterprise skills to:	■
Teamwork skills to:	■

Planning and organising skills to:	■
Self-management skills to:	■
Technology skills to:	■

UNIT MAPPING INFORMATION	No equivalent unit.
LINKS	Companion Volume Implementation Guide

TITLE	**Assessment Requirements for HLTHSS012 Handle medical gases safely**
PERFORMANCE EVIDENCE	Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and: ■ prepare, handle and store medical gas cylinders and equipment in accordance with organisational procedures on three separate occasions in the workplace or simulation and should include: ◦ preparation and inspections of a: • cylinder • flowmeter • regulator • wall outlets ◦ fitting auxiliary equipment including • flowmeters • hose assemblies ■ identify at least two critical hazards associated with medical gas and outline risk management plans or organisational procedures for reporting and control of the hazard in the workplace or simulated environment.

KNOWLEDGE EVIDENCE	Demonstrate knowledge required to complete the tasks outlined in elements and performance criteria of this unit: ■ relevant industry standards and legislation for storage and handling of gases in cylinders ■ organisational procedures and policies relating to: ◦ training an authorisation of personnel ◦ storage and handling of gases in cylinders ◦ reporting faults or damage to cylinders ◦ security of storage areas ◦ wearing of personal protective equipment ■ potential risks and hazards to gas equipment use and associated precautions and workplace health and safety (WHS) requirements ■ emergency response procedures

- transportation requirements and equipment
- principles and purpose of medical gas components including:
  - cylinders:
    - different gases and colour coding
    - cylinder valves and 'pin index locating system'
    - combinations such as cylinder and reg built in system
    - correct storage and restraint
    - stock management
  - regulators:
    - preparation and inspections of:
  - regulator
  - seals
  - yoke and pin indexes
    - safety requirements regarding:
  - fitting of regulator to cylinder valve
  - flowmeters
    - preparation and inspections of:
    - seals
    - handwheel and sleeve index systems
    - safety requirements regarding:
    - fitting flowmeter to regulator
    - turning on cylinder and testing Flowmeter
  - multi flow regulators and regulator and flowmeter combination
    - preparation and inspections of:
    - flow regulator
    - seals preparation and inspections
    - yoke and pin Indexes
    - safety requirements regarding:
    - fitting regulator to cylinder valve
    - turning on cylinder and testing device

	◦ wall outlets • preparation and inspections of: • auxiliary equipment including flowmeters and hose assemblies • seals • safety requirements regarding: • fitting auxiliary equipment including flowmeters and hose assemblies.

ASSESSMENT CONDITIONS	Skills must have been demonstrated in the workplace or in a simulated environment as specified in the performance evidence. Assessment must ensure: ▪ access to use of suitable facilities, equipment and resources that reflect real working conditions and model industry operating conditions and contingencies ▪ medical gas equipment ▪ emergency and personal protective equipment ▪ work sheets ▪ a trained and authorised supervisor Assessors must satisfy the Standards for Registered Training Organisations (RTOs) requirements for assessors.
LINKS	Companion Volume Implementation Guide